True Fitness Service Manual

Treadmills

Models 350-750

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Revision 9/2004

Treadmill Preventative Maintenance Checklist

- *Run calibration or run a manual program and watch and listen for anything out of the ordinary.
- ❖ Perform a push off test (page T-7) to check for proper lubrication. If excessive friction is found and lubrication doesn't correct the problem perform the amp draw test (page T1-2)
- ❖ Inspect the belt surfaces, topside should still have texture for grip, bottom should be porous fabricnot glazed, smooth or hard.
- ❖ Inspect deck surface, should be free of scratches, abrasions or blistering.
- Listen for excessive bearing noise, from a standing position, in the front and rear roller and motor.
- Check for front roller/belt slippage and belt tension adjustment. Look for slippage on drive pulley.
- ❖ Inspect/ adjust tracking of belt.
- ❖ Vacuum out motor area, being careful not to damage PWM.
- ❖ Inspect drive belt for wear and cracking.
- ❖ Wipe down machine- leave it in better condition than you found it.

True Fitness Treadmill Service Manual

START

- **❖**Symptom guide
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SYMPTOM GUIDE

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Sympt	om	Probable Cause	Corrective Action	Recommended Tools
	ERROR SSAGES: LUBE	Indicates that the accumulated distance is such that the deck needs to be lubed	• Lube deck with True Fitness liquid silicone lubricant. Inspect wax bar assembly on commercial models, if worn to less that ¼ inch in thickness-replace wax bar.	Liquid silicone single use pack Liquid Silicone Applicator. Vacuum Shop towel
S2 C	CLEAN	Indicates that the accumulated distance is such that the machine needs to be cleaned.	Remove motor cover and vacuum dust from area. Wipe down the exposed area of the deck beside the straddle covers with a clean, dry cloth.	
S3 M	MOTOR	Indicates that the accumulated time on the treadmill is such that the motor brushes need to be changed/checked.	 Check/Replace motor brushes as needed. Reset timer. 	
E5 S	SPEED SENSOR	Cannot read speed sensor	Perform Speed Sensor Test page 21	
E1 S	STALL	Incline reading not changing when commanded	See Elevation Not Functional page 9.	
E1 I	INCLINE	Incline reading has changed without the incline being commanded.	See Elevation Not Functional page 9.	
E1 R	RANGE	Maximum or minimum elevation out of calibrated ranges	See Elevation Not Functional page 9.	

Symptom	Probable Cause	Corrective Action	Recommended Tools
ERROR MESSAGES: (cont'd) E2 O OVERSPEED	Belt speed ramping too fast.	Perform Amp Draw Test – Page 20. Perform Belt / Deck Wear Test – Page 24.	Multi-meter Phillips head screwdriver
E2 C CALIBRATE	Micro-controller cannot adjust belt speed to target.	Calibrate Treadmill – Page 16. See appropriate Symptom Guide – pages 10-11.	
E3 E EEPROM	Software error during treadmill startup diagnostics.	Restart Treadmill, if error persists- replace control panel.	
E2 R RECALIBRATE	Treadmill has lost calibration settings.	Recalibrate Treadmill – Page 16. (If unit loses programs- replace control panel)	

Symptom	Probable Cause	Corrective Action	Recommended Tools
NO BELT MOVEMENT	Treadmill in need of calibration.	• Run calibration. (page 16)	Multi-meter PWM / Motor test cables
	Missing command to PWM.	Is PWM light blinking/ illuminated when fast button is pushed? NO- Check continuity on wire harness, if harness has continuity breaks replace the harness. If harness has continuity- replace the upper panel. Refer to wiring harness diagram for your model. YES- move on to next step, wire harness and control panel are OK.	Note: All trouble shooting should be performed in calibration mode. Page 16
	Missing/incorrect voltage to motor.	 With treadmill in calibration mode (page 16) Set speed at 4 MPH Check VDC across MTR 1 and MTR 2 with the motor leads connected to the motor the voltage should measure 10 VDC for every 1 MPH. If voltage is missing or low- Replace PWM. If voltage is greater than 20 VDC/MPH motor may have open windings. 	
	Damaged motor.	 With PWM LED Blinking/ Illuminated-move the tread belt with your foot to see if motor begins to move on its own. If motor begins to move, inspect the condition of the brushes and the commutator. If brushes are bad- replace brushes If motor doesn't turn or has a damaged com segment- replace motor. Continue on next page	

Symptom	Probable Cause	Corrective Action	Recommended Tools
NO BELT MOVEMENT (cont'd)	Motor turns but belt does not.	 Check belt tension. Set belt tension to 1/8-inch deflection or correct tension can be verified by twisting the belt almost to a 90-degree position. 	Note: All trouble shooting should be performed in calibration mode. Page 16
	Belt cannot be moved manually- foreign object under	• Remove foreign object. Perform the Amp Draw Test (page 20) to check for excessive amp draw damage	
	belt.		

Symptom	Probable Cause	Corrective Action	Recommended Tools
TREADBELT STOPS DURING WORKOUT Error Code displays: Go to page 3 & Page 4.	Loose safety key connection Belt movement issue	 Check safety key to ensure that it is seating properly. Check connection sensitivity. If treadmill will not reset with cycling the power go to NO BELT MOVEMENT (pages 5 & 6) 	Liquid silicone single use pack Liquid silicone Applicator Multi-meter Socket set
	Worn Deck / Belt Occurs when making changes to speed or	 Perform Belt / Deck Wear Test (page 24). Perform Amp Draw Test (page 20). Apply silicone. Replace Deck and Belt. ———— May be related to electro static discharge. Contact Technical support 	Note: All trouble shooting should be performed in calibration mode. Page 16
	Overloaded house circuit	 Verify the treadmill is on a dedicated circuit with at least a 15 amp breaker Have customer supply a dedicated circuit 	
	Continuity, connection to motor	Reconnect or replace motor wires or connectors	
	Tread belt not centered or obstructed	 Tension tread belt (page 22) Center tread belt Remove obstruction 	

Symptom	Probable Cause	Corrective Action	Recommended Tools
HEART RATE NOT WORKING / ERRATIC READINGS	Incorrect power source	 Verify that the treadmill is connected to a dedicated line, 15-amp circuit, and not on an extension cord. Move to proper outlet. Test 110 VAC outlet for proper ground 	Multi-meter Double sided tape Heart rate simulator
	Improper treadmill grounding	 Proper grounding is vitally important. Ensure that the pedestal wire harness ground lead is secure 	Note: All trouble shooting should be performed in calibration
	Improper heart rate receiver mount	• Ensure that the HR receiver is not touching metal and is mounted with the wires in a vertical position with the blue receiver facing the runner	mode. Page 16
	Defective Chest Strap	 Does the receiver pick up a signal from the HR simulator? If yes, replace chest strap 	
	Defective receiver	Does the heart rate LED on the control panel blink? If not then replace the receiver.	
	Radio Frequency Interference	Locate RF sources and use process of elimination. Common sources of RF interference are: Invisible fences for pets; wireless networks; cordless phones, Cell phones, radios, home security sensors, etc.	

Symptom	Probable Cause	Corrective Action	Recommended Tools
ELEVATION NOT FUNCTIONAL (E1 ERROR)	Improper grounding / Calibration (May cause unit to drift up & down without command)	 Test 110VAC outlet for proper grounding If unit has not been calibrated – calibrate Ensure that incline cables are secure on PWM 	Multi-meter Alligator clip
	Unit is stuck at full incline	 Verify the lower limit switch is properly connected to the PWM Remove the LLS wire from the PWM and short the two posts of the connector together with an alligator clip. Cycle the power. If the treadmill lowers itself then replace the lower limit switch. Perform Incline potentiometer calibration procedure (page 16) If incline nut is stripped- replace incline nut 	Note: All trouble shooting should be performed in calibration mode. Page 16
	Defective Start Capacitor	 Do Up/Down command LED's light? If No- skip to defective PWM section. If yes- does motor hum with no movement? If yes- check the leads to the capacitor for breaks, if no breaks- replace capacitor. If No- replace PWM. 	
	Defective PWM	 If no Up/Down LED's light check continuity on data cables. If cables are good- replace Upper Panel. If cables bad- Replace data cables. 	

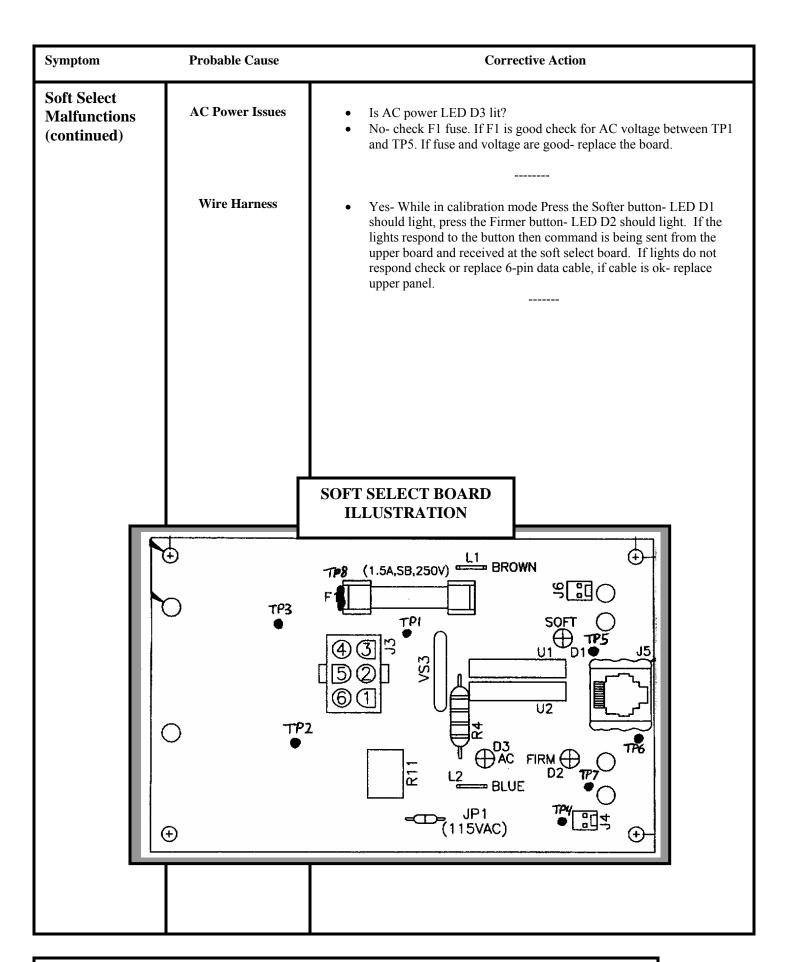
Symptom	Probable Cause	Corrective Action	Recommended Tools
SPEED FLUCTUATION E2: CAL	Speed Fluctuation (Due to high friction)	 Perform Push Off Test (page 24) Perform Amp Draw Test (page 20) 	Multi-meter Socket Set
			Silicone Lubrication Packet
	Speed Fluctuation (Due to Voltage fluctuation)	 Check Line voltage for fluctuations. Have customer take corrective action. 	Silicone Lubrication Applicator
			Note: All trouble shooting should be performed in
	Bad Data Feedback	 Verify tach feedback accuracy through out the speed range. If inaccurate perform speed sensor test (page 21) 	Calibration Mode: See SG-12
	Incorrect Speed Sensor Gap	 Verify correct Speed sensor Gap. Gap should be equal to the thickness of (3) credit cards pressed together (approximately 1/8 to ½ inch) 	

Symptom	Probable Cause	Corrective Action	Recommended Tools
SPEED FLUCTUATION S4: Sensor E5: Speed Sensor E2: Overspeed	No Belt Movement	• Go to page 5 , 6 .	Multi-meter Socket Set Silicone Lubrication Packet
E3: EPROM Error	No/Intermittent Tach Feedback	 Enter Calibration mode (page 16) Verify speed feedback in speed display through out the speed range. [Speed display should never show 0 mph when belt is moving] If no tach feedback is available perform speed sensor test (page 21). Check continuity of tach feedback portion of the data cable (To identify tach feed back lines see wiring diagram section for specific model). 	Note: All trouble shooting should be performed in calibration mode. Page 16
	Overspeed Error	 Check/Adjust tread belt tension (page 22) Perform speed sensor test (page 21) If speed sensor fails adjust gap, if still fails-replace speed sensor. Perform belt / deck wear test (page 24) If badly worn, replace belt and deck. Replace PWM 	
	E3: EPROM Error Software error during treadmill startup	Restart unit- if error persists, replace control panel.	

Symptom	Probable Cause	Corrective Action	Recommended Tools
NO DISPLAY	No power at the 110 VAC outlet.	 Check home circuit breaker. Reset as necessary. Test for 110 VAC at outlet. Identify if outlet is a GFI. Note: Some brands of GFI outlets are too sensitive for treadmill use. Call the help line if encountering GFI issues.	Allen Key set. Phillips head screwdriver. Multi-meter.
	No power to the treadmill.	 Check for AC light on PWM. (See diagram pages 23-30) Check for 110 VAC at power cord. Replace if no power. If Yes- Check for 110 VAC at tread power switch. Replace if no power. If Yes-Check for 110 VAC at tread circuit breaker. Replace/ reset if necessary. If Yes- Check for 110 VAC at PWM across AC1 & AC2. If Yes- Replace PWM. 	Note: All trouble shooting should be performed in calibration mode. Page 16
	No power to the control panel.	 Check status LED +11 VDC on PWM (See diagram pages 23-30). If not remove fuses and check continuity as replace as needed. If Yes- Check wire harness connections at PWM and Control Panel. Reconnect as needed. If Yes- Check voltage on harness at panel. Refer to wiring diagram for your machine type in wiring diagram section. If voltage is present—replace panel and recalibrate (page 16). If voltage is not present check voltage at PWM. If voltage is present at PWM replace pedestal wire harness. If 0_VDC replace PWM and recalibrate (page 16). 	

Symptom	Probable Cause	Corrective Action	Recommended Tools
CIRCUIT BREAKER TRIPS	Possible short in treadmill wiring.	 Power off the treadmill and inspect all wiring for shorts or burned areas. Secure all connectors. 	Allen Key set Needle nose pliers Socket set
			Multi-meter
	Motor issues.	 Disconnect motor leads from the PWM. Power on treadmill, press start. If the breaker does not trip check the motor brushes and perform the motor test procedure (page 22). Reconnect motor to the PWM, if the breaker trips- replace the motor. 	
	Incline motor drawing treadmill down	 Unplug incline motor. Power on treadmill, if breaker does not trip- replace incline motor. 	Note: All trouble shooting should be performed in calibration mode. Page 16
	Bad PWM	• Unplug PWM, power on machine. If breaker doesn't trip- replace PWM.	
	Too much tension on belt or obstruction under belt. Weakened circuit breaker or High belt/deck friction	 Check for correct tension adjustment (page 22) Check for obstruction- remove obstruction. Perform AC Amp Draw Test (page 20) at circuit breaker. If draw is less than 15 amps continuously - replace breaker. Perform Amp Draw test (page 20) If Amp draw is higher than recommended try push test (page 24) procedure. 	

Symptom	Probable Cause	Corrective Action
Soft Select Malfunctions	Control Panel Issues	 Enter calibration mode Is there a count value displayed in the distance window? If No replace control panel. If yes- continue to next step.
	Mechanical Issues	 Press and hold the softer button, release. Press and hold the firmer button to detect carriage movement in both directions. If the carriage cannot go full range from -220 and consistently stops in the same place, check for mechanical binding. Inspect the under pan for damage or areas that cause mechanical binding. Also inspect the carriage track in the side frame for binding. If the carriage cannot move to its full range and back in the time limit, check for mechanical binding. If the carriage is not moving and the motor is turning, check the set screws holding the drive shaft to the motor shaft.
	Incorrect/ Missing Count Values	 Threaded shaft turns when commanded but the pulse count does not display/ or does not change. Physically check the hex cam located at the front of the shaft and on the motor shaft. Hex cam should be firmly attached. If hex cam slides freely super gluing it back onto the shaft can repair it. Hex cam moves but counter does not register. Ensure that the micro switch is properly adjusted and the switch is being made when the hex cam points press against the roller. Disconnect the cable at J4 and check for continuity on cable. Cable should have continuity if the switch roller is in a flat area of hex cam. If no continuity- replace cable. If good continuity, place cable back on J4 and continue While in calibration mode place the multi-meter leads on J4 and check for 5 Volts. If no 5 Volts- replace board.
	Defective Motor/ Start Capacitor	 If command and count data/voltage are present and Led 1 indicates AC voltage is good but soft select motor does not respond. Set probes on TP 8 and TP3, press soft command (with soft select limit switch not activated) result should be 120 VAC. Set probes on TP8 and TP2 and press firm command (with soft select limit switch not activated) result should be 120 VAC. If no 120 VAC on either test point- replace soft select board. If voltage is correct- continue to next step. In calibration mode, place red lead on the larger red wire and post on the start capacitor of the soft select system and the black lead on the common black lead, press firm- the result should be 120 VDC. Next place the white lead on the larger white wire and post on the start capacitor of the soft select system and the black lead on the common black lead; press soft- the result should be 120 VDC. If voltage is correct- replace the motor. If voltage is incorrect- replace the start capacitor.



Calibration Procedures

SS 100 PWM (5-xxxxx to 6-79999 serial numbers)

Entering Engineering Mode:

With safety key in, power up unit while holding Grade Up and Grade Down keys.

Incline will reset to zero.

Mode 1: Max Speed

Press **Select/Enter-** 01 (C1 for 450) appears in Distance.

Adjust speed using **Fast** and **Slow** buttons until 10 or 12 mph

Verify speed by counting belt revolutions: 10mph= 102 Belt revs/per min. 12mph= 121 Belt revs/per min.

Press **Start/Reset** to save max speed, wait for belt to stop.

Mode 2: Speed Table

Press Select/Enter-02 (C2 for 450) appears in Distance

Press **Start/Reset** to set speed table. Treadmill will speed up and slow down on its own. Wait for belt to stop.

Mode 3: Incline

Press Select/Enter- 03 (C3 for 450) appears in distance

Press Grade Up to upper incline limit, then back down slightly

Save upper limit by pressing Start/Reset

Turn treadmill off and then back on and check operation

SS90 Calibration (6-8xxxx serial numbers and after)

Enter Calibration Mode by holding the **Up** and **Down** keys while inserting the safety key In message center window displayed: Press Start to Calibrate

NOTE: In Calibration mode, it is possible to check if the speed sensor is reading all the front roller magnets: the Met light will light when a magnet is in front of the sensor. Speed must be less than 1 mph.

Press Start/Reset to begin calibration

Treadmill will elevate and speed up/slow down. Wait for belt to stop.

Message center window will display: Successful, or will indicate error area.

Remove and re-insert safety key. Check operation of treadmill.

DIAGNOSTICS (Available only in SS90 Machines)

To enter diagnostic mode, press and hold the FAST and SLOW buttons while pushing in the safety key.

The control panel will show "Diagnostics".

Press the **UP** button: Total Hours (in whole hours)

Press the **UP** button: Distance (in miles, two digits past decimal point)

Press the **UP** button: Average Speed (in mph)

Error List (This is an error log, but just a list of errors possible on the unit.)

S1: Lube

S2: Clean

S3: Motor

S4: Sensor

E1: Minimum

E2: Overspeed

E2: Cal

E3: EPROM

Remove Safety Key to exit Diagnostics

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Drive Motor Test	Page 22
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Tread belt Tension Test	Page 22
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Belt / Deck Wear Test (Push Off Test)	Page 24

GROUNDED OUTLET TEST

This test is very important for optimal HRC and incline operation.

Set voltmeter for Volts AC
Place 1 lead in the right side of the outlet (hot)
Place 1 lead in the ground plug
A properly grounded outlet will read 110 VAC

AMP DRAW TEST

This test is a good indicator of the wear condition of the belt and deck, and the need for lubrication. The treadmill circuit breaker will trip at 15 amps, so be sure the voltmeter you are using is rated for at least 15 amps when you are load testing the treadmill. This test can be performed either on one of the AC power cord leads or on one of the DC motor leads from the PWM to the motor. Testing the amp draw at certain speeds without load and with load will signal whether higher than normal amp draw is a result of PWM failure or increased friction from belt and deck wear.

AC AMP DRAW PROCEDURE

This procedure requires an AC clamp-on ammeter. Place the clamp around either of the power cord leads, black or white. Load test requires a person to walk on the tread belt for 5-10 minutes.

2.5 mph w/out load	2.0-2.5 AMPS AC
2.5 mph with load	2.75-3.75 AMPS AC
5.0 mph w/out load	3.5-4.0 AMPS AC
5.0 mph with load	5.0-7.0 AMPS AC

DC AMP DRAW PROCEDURE

This procedure can be performed with an ordinary voltmeter. (**Note: Be sure the voltmeter is rated to handle 15 DC amps.**) Disconnect the red motor lead from MTR1 on the PWM. Connect the voltmeter to MTR 1 on the PWM and the other voltmeter lead to the red motor lead so that the voltmeter completes the connection of the PWM to the motor.

2.5 mph w/out load	4.5-5.0 AMPS DC
2.5 mph with load	7.0-8.0 AMPS DC
r	
5.0 mph w/out load	5.0-5.5 AMPS DC
5.0 mph with load	8.5-9.0 AMPS DC

Higher than normal amp draws without load may signal that belt tension is too tight or there is a problem in the Drive Motor or PWM. Perform the Drive Motor Test and visually check the motor brushes before replacing the PWM. Higher than normal amp draws with load after normal readings without load signal belt and deck friction which may require lubrication or replacement.

SPEED SENSOR TEST

This test is used to verify sensor operation in conditions of speed fluctuation, E2: Cal error, S4: Sensor error, E2: Overspeed error or Unsuccessful Calibration.

SS100 (Serial numbers 5-xxxx to 6-7999)

Set voltmeter to Volts DC. Treadmill power on speed and speed at 0mph Attach voltmeter leads across outside 2 contacts at P2 on PWM With magnet in front of sensor, 0 VDC With no magnet in front of sensor, 3.0 VDC

SS90 (Serial numbers 6-8000 and above)

Set voltmeter to volts DC. Treadmill power on and speed at 0 mph Attach voltmeter leads across outside 2 contacts at J1 on PWM

With magnet in front of sensor, 0 VDC

With no magnet in front of sensor, 5 VDC

Check the sensor on every magnet, adjust sensor until voltage shows

In calibration mode before pressing Start, the tread belt can be moved manually and the Met light will blink when a magnet is in front of the sensor.

VOLTAGE TO DRIVE MOTOR TEST

This test is used to diagnose conditions of NO Belt Movement, or Speed Fluctuations

Set voltmeter to volts DC and adjust speed on Control Panel to 4 mph Attach red voltmeter lead to MTR1 on PWM with motor wires attached Attach black voltmeter lead to MTR2 on PWM with motor wires attached 0 VDC signals open circuit in motor or motor connection

166 VDC signals open circuit in motor or motor connection

Operating voltage will lay between 0 VDC and 166 VDC

NOTE: The reason that we do not narrow down PWM output voltage is that the PWM output is a pulse signal. The sampling rate of the voltmeter used will determine what output voltage the voltmeter is able to read.

DRIVE MOTOR TEST

This test is used in conditions of No Belt Movement.

Unplug treadmill and set voltmeter to volts DC
Disconnect motor leads from PWM
Place 1 voltmeter lead in each motor wire
Gently spin the motor flywheel and check for voltage DC
2-5 VDC means normal motor operation
0 VDC means motor malfunction

DRIVE BELT TENSION TEST

This test is used in front roller replacement and in conditions of belt slipping.

Place two fingers on top of the drive belt halfway between the front roller pulley and the drive motor pulley.

With moderate pressure push down on belt

If belt deflects down more than 1/8 ", tighten motor mounts

If belt deflects down less than 1/8 ", loosen motor mounts.

It is also possible to twist the belt; you should be able to twist the belt almost to a vertical position

TREADBELT TENSION TEST

This test will address belt slipping and is used in any roller replacement or deck replacement. Ensure that the drive belt is properly tensioned before adjusting tread belt tension. Belt and deck wear and/or lack of lubrication can cause the tread belt to show symptoms similar to loose tread belt tension- check these conditions before adjusting tread belt tension.

Turn treadmill on and adjust speed to 2 mph
Walk heavily on the belt pulling slightly against belt movement
If hesitation or slip is detected, tighten tread belt tension bolts ¼ turn
Repeat until no hesitation or slip is encountered. Check at higher speeds

Tread belt tension is too tight if the belt feels stiff to touch with no give or the belt groans against the rollers. You should be able to insert your hand between the belt and deck palm up almost to your thumb when the belt is at proper tension.

INCLINE POTENTIOMETER CALIBRATION TEST

This test can correct E1: Minimum conditions and aid in diagnosis of incline problems with finding zero or target incline.

SS100 and SS90

Set voltmeter to Ohms (Ω) with treadmill unplugged from wall Place 1 voltmeter lead on pin 3 (Blue) and 1 lead on pin 2 (Orange) Check for 800 Ohms

SS90 Only: In calibration mode before pressing Start, the Distance window displays the incline number. With the treadmill at zero, the number should be between 160 and 180. 0 often indicates a wire harness misconnection or failure of signal to panel.

As the unit inclines during calibration, watch the numbers in the Distance window, if they do not increase by at least 60 from the zero value, an E1: Minimum error will result. Then the zero value may need to be rest to a lower value.

If incline potentiometer needs adjustment, remove swivel opines and twist incline motor shaft by hand for SS100 or use Up and Down keys for SS90. (See diagram on T-6)

VOLTAGE TO INCLINE MOTOR TEST

This test is utilized in conditions of No Incline Movement, Incline Fluctuation, or E1: Minimum.

Set voltmeter to AC volts. To access incline plug, PWM screws may need to be removed. Place voltmeter leads across White and Black while pushing UP button 10 VAC indicates normal PWM output, 0 VAC signals no output Place voltmeter leads across Red and White while pushing Down button 110 VAC indicates normal PWM output, 0 VAC signals no output

Belt / Deck Wear Test

This is a simple physical test to gauge the general level of friction present between the deck and belt.

- 1. While the treadmill is <u>not</u> running, inspect the condition of the underside of the tread belt. The fabric should be soft and porous. If the belt appears glazed-replace the belt.
- 2. While the treadmill is <u>not</u> running, slide your hand under the belt and feel the surface of the deck. The deck should feel smooth with no abrasions or scratches. If any abrasions or scratches are found- replace the deck.

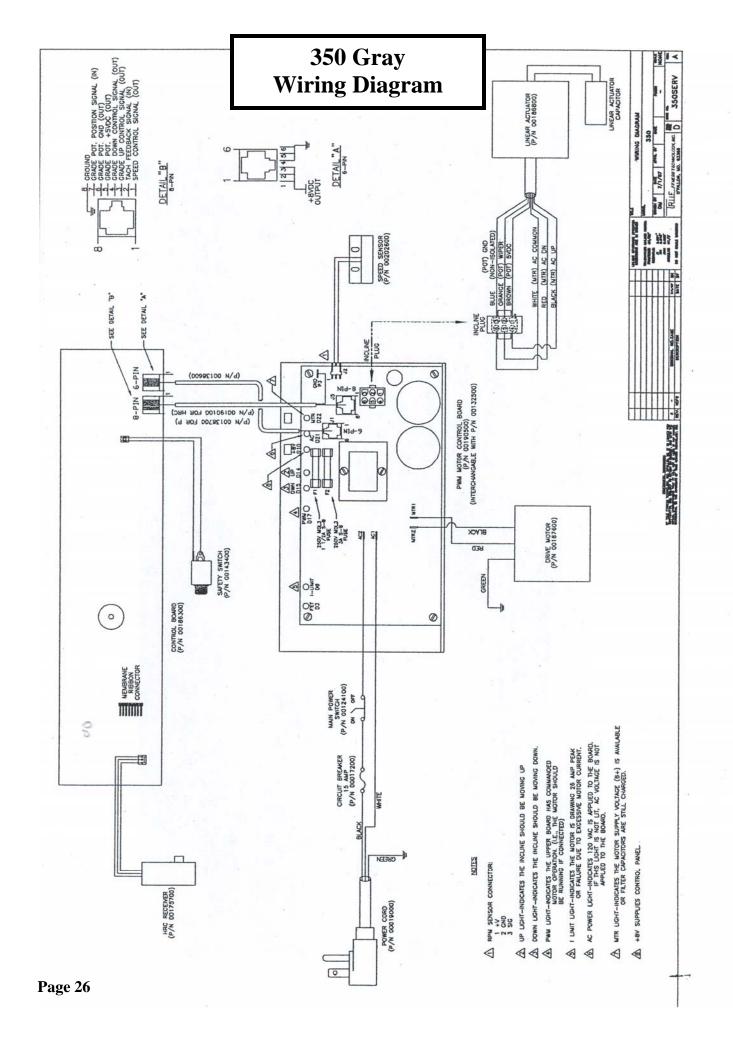
Push Off Test

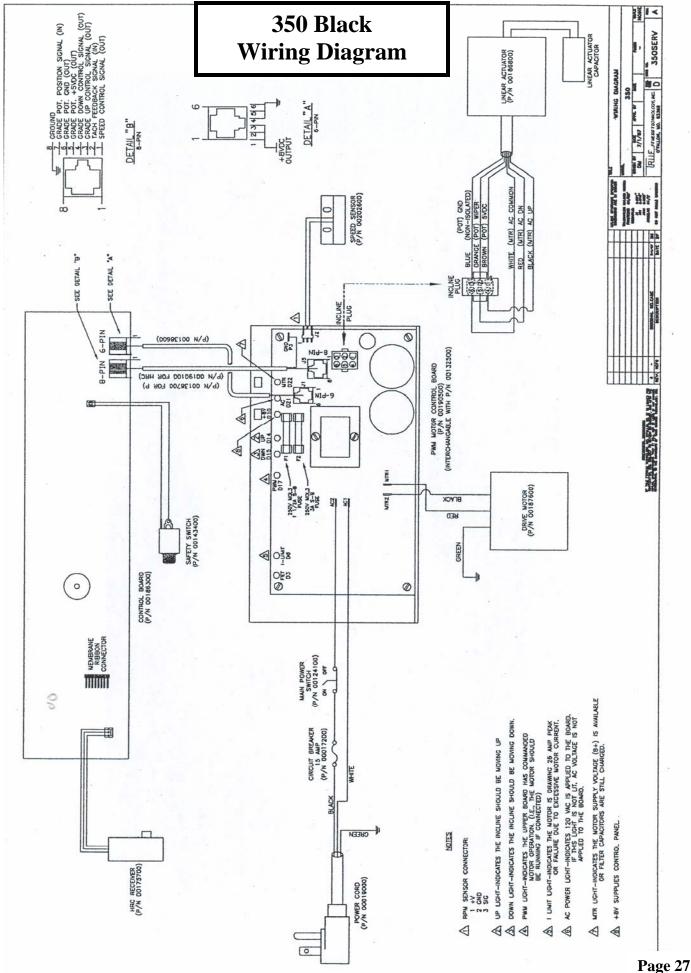
Place the machine in Calibration mode, elevate to the highest elevation- speed should be set to <u>0</u>. Stand on the tread belt positioning yourself close to the console; push off with moderate force. The elevation combined with your weight and the force of the push should cause the belt to carry you all the way to the end of the machine*. If the test does not carry you to the end of the machine lubricate the belt using True Fitness liquid silicone. After lubricating the belt/deck perform the push off test again. If it does not pass the test after lubricating replace the belt and deck

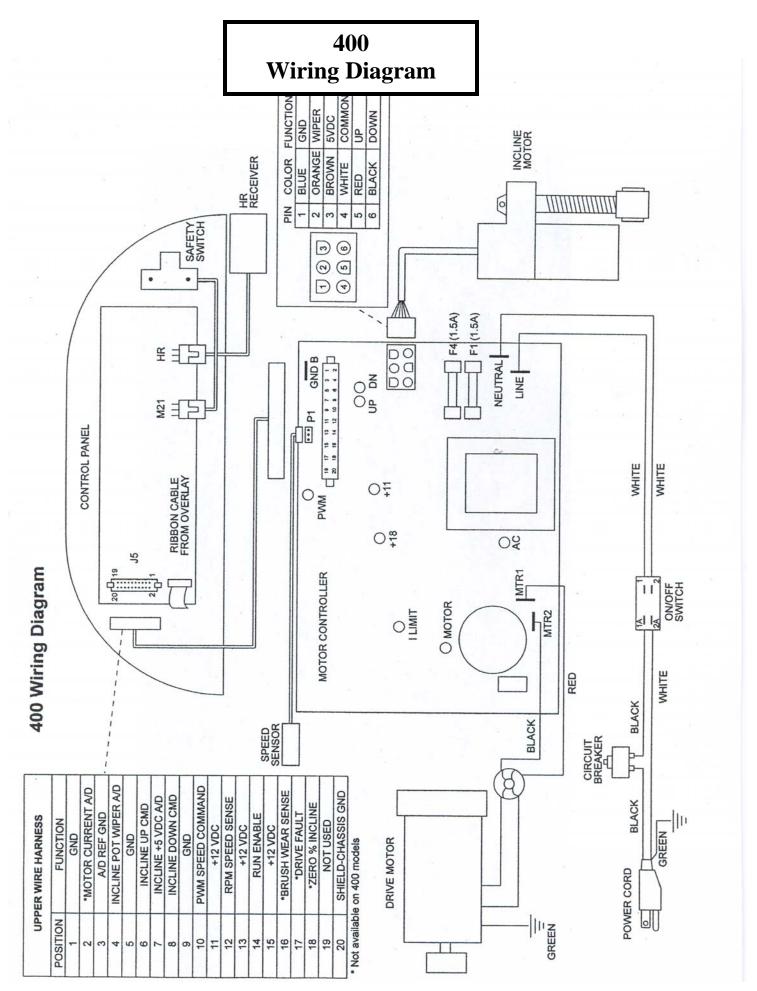
* **Note:** Residential treadmills may only carry about ³/₄ of the distance of the deck due to higher tension on the belt.

WIRING DIAGRAMS

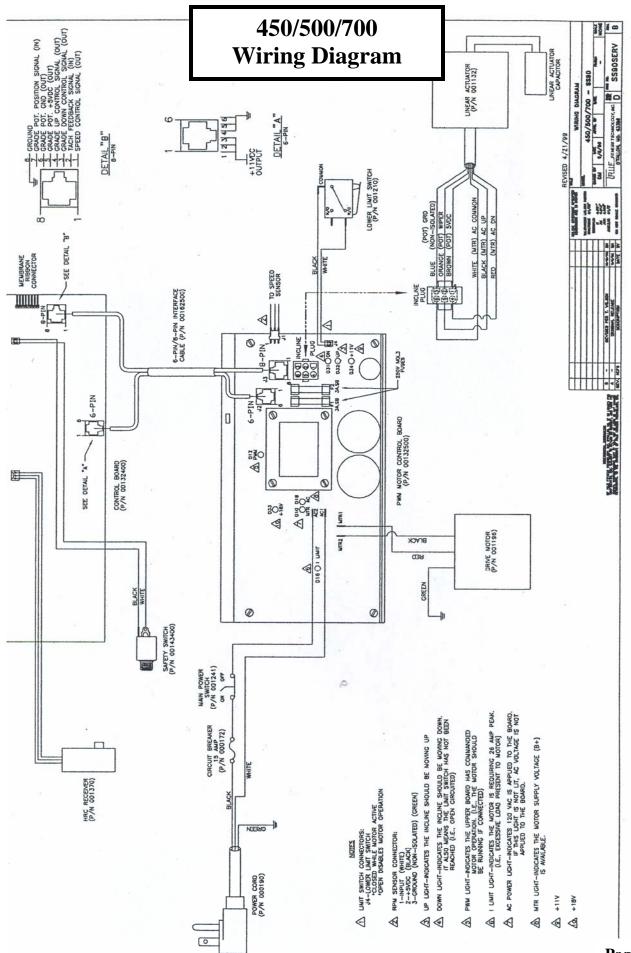
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400	Page 28
450/500/700	Page 29
500CI/750CI	Page 30
750 NON/P	Page 31
750	Page 32

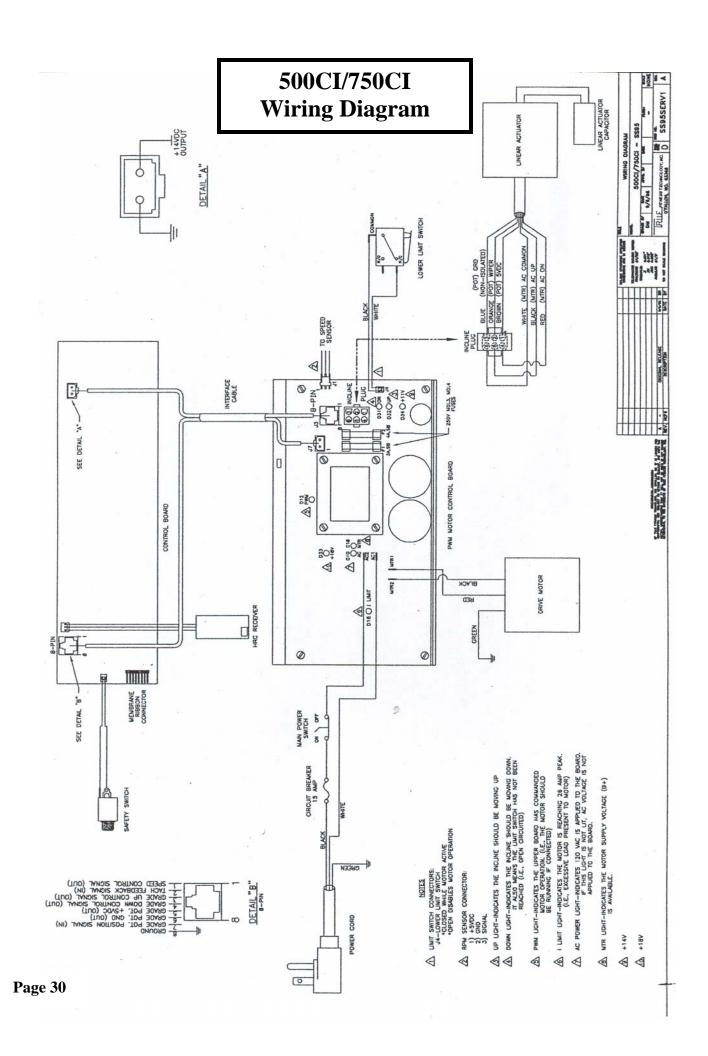


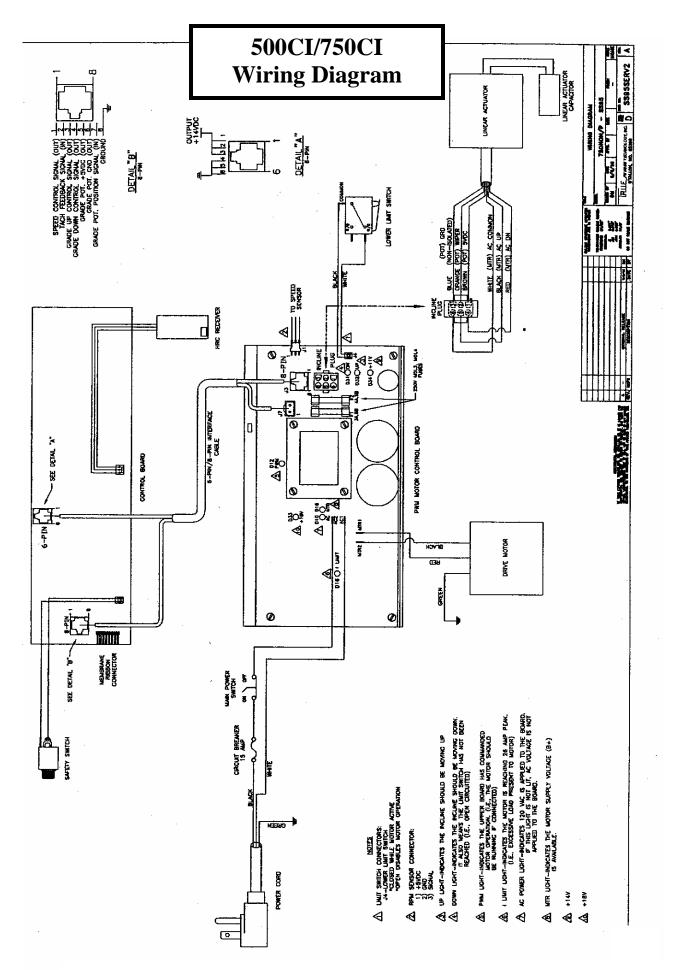




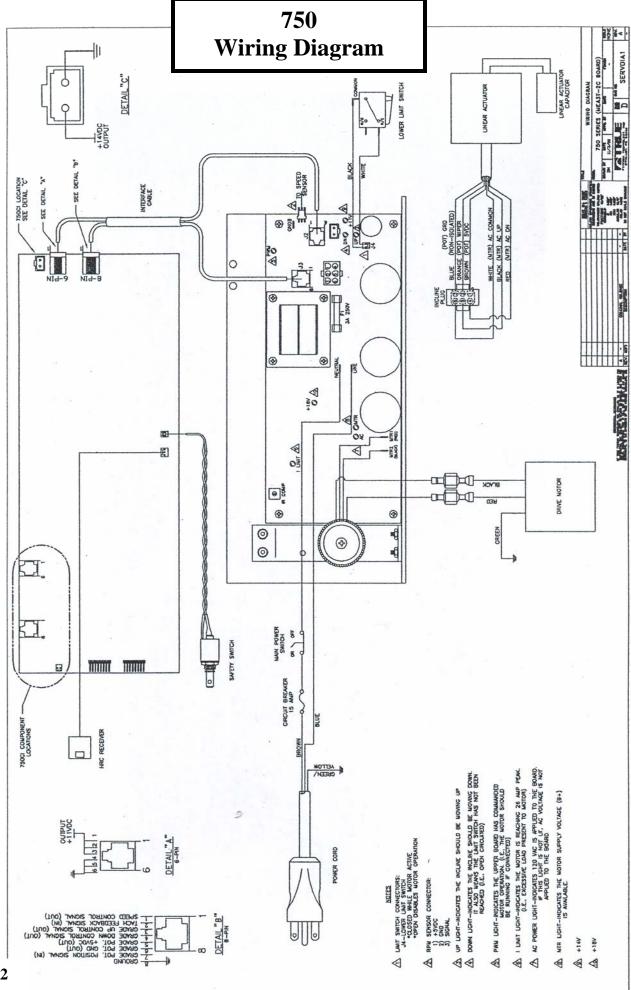
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Model 350-450

Parts List

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350PB, HRCB	Page 37
400, P, HRC	Page 39
450, P, HRC (SS100-SS90) Page 41

350P, HRC PARTS LIST

PART # DESCRIPTION

350 Board Only 70186311 350 P Board Only **(98- Present)** 70186310 350 HRC Board Only

(98-PRESENT) 70186401 350P CONTROL PANEL 98-now

70186402 350HRC CONTROL PANEL 98-NOW

(HARDWARE) 70185400 HRC RECEIVER ASSY.

70151900 5/8" DOME PLUG FOR HR RECEIVER 70176000 C.P. TAPE 3/8 DOUBLE COATED FOAM

70150000 SAFETY SWITCH ASSY. 70177400 SAFETY KEY ASSY.

OVERLAYS

70186411 350P GRAY OVERLAY 70186412 350HRC GRAY OVERLAY

PWM

LOWER BOARD (PWM)

70013500 PWM SCREW 10-32 X 3/8 PPHTF

70350300

SPEED SENSOR

70202600 SPEED SENSOR

70350300 EXTENDER WIRE FROM SENSOR -PWM

70190800 SPEED SENSOR SCREW

DATA CABLE

70138600 6- CONDUCTOR INTERFACE CABLE
 70138700 8- CONDUCTOR INTERFACE CABLE
 70190100 8- CONDUCTOR INTERFACE CABLE- HRC

DRV MTR

70187600 DRIVE MOTOR ASSY.70166600 MOTOR DRIVE PULLEY

70173400 MOTOR COVER

DRV BELT

70127500 POLY-V-BELT

ELEVATION MTR

70186800 INCLINE MOTOR

70183600 CLEVIS PIN 3/8 X 1 3/4 70116700 COTTER PIN 1/16 X 1 5/16 70183700 CLEVIS PIN 3/8 X 2 1/8 70164800 COTTER PIN 3/32 X 1/2 70183200 INCLINE CAPACITOR **ELEVATION RACK**

70184401 ELEVATION RISER ASSY.

70176700 MOLDED WHEEL

70182300 INCLINE RISER BOLT 5/16- 18 X 1 1/4
70115200 INCLINE RISER WASHER 3.8 I.D. X 7/8 O.D.
70209900 INCLINE RISER NUT 5/16- 18 AUTOMATION GR.

POWER CORD

70253100 9FT. POWER CORD

70008200 STRAIN RELEIF BUSHING

ON / OFF SWITCH

70251100 ROCKER ON/OFF SWITCH

CIRCUIT BREAKER

70017200 15 AMP CIRCUIT BREAKER

TREADBELT

70208500 TREADBELT 18" X 107"

DECK

70186700 FLEX DECK ASSY.

70020200 DECKSCREWS/BUMPER FEET 10- 32 X 1 1/4 PPH

FRONT ROLLER

70217500 FRONT ROLLER ASSY.

70188500 FR ROLLER BOLT 1/4- 20 X 2 Gr. 5 Hex Hd. 70185300 FR ROLLER NUT 1/4- 20 NYLOC NUT

REAR ROLLER

70188000 REAR ROLLER ASSY.

70175100 REAR ROLLER COVER-LEFT 70175200 REAR ROLLER COVER-RIGHT

70104000 R ROLLER SCREW 10 X 1/2 PPH Tek Screw

STRADDLE COVERS

70173301 STRADDLE COVER- L.H. 350P 70173302 STRADDLE COVER- R.H. 350P

70173303 STRADDLE COVER- L.H. 350 HRC 70173304 STRADDLE COVER- R.H. 350 HRC

70086700 STRADDLE COVER SCREW 6 X 1

70182400 INSIDE COVER SPACER

70030900 3/8 X 1/16 X Lg. DOUBLE STICK TAPE

70165400 OUTSIDE COVER SPACER

RAMRAILS

70188700 HANDRAIL ASSY. L.H. BLACK 70188800 HANDRAIL ASSY. R.H. BLACK

70212300 HANDRAIL ASSY. L.H. GRAY 70212400 HANRAIL ASSY. R.H. GRAY

70185100 LOWER HANDRAIL BUSHING 1/4- 20 X 3 3/4 70198900 LOWER HANDRAIL BUSHING 3/8 OD X 1"

70183101 H/BAR NUT PLATE

PEDESTAL

70157000 PED. STAR WASHER 1/4 I.D.INTERNAL TOOTH WASHER

70186600 PEDESTAL WELDMENT 70179901 STRAP CLAMP PED.

70155900 PED. SCREW 1/4- 20 X 5/8 BHSCS

FRAME

70181901 FRAME WELDMENT

70160100 BUMPER ASSY

70155200 BUMPER- 1 1/2 X 2 X 1 1/8

350PB, HRCB PARTS LIST

	PART#	DESCRIPTION
CONTROL PANEL		
(350B) Board Only	70237311	350PB Board Only
	70237310	350HRCB Board Only
	70242000	350PB CONTROL PANEL
	70242001	350HRCB CONTROL PANEL
		0.4 55577 014/17 011 4 0077
	70150000	
	70185400	
		PLASTIC HRC COVER
	70177400	SAFETY KEY
OVERLAY		
OVERLAT	70242010	350PB DOT/OVERLAY
	70242010	
	70242011	3301 INCO DOT/OVEREAT
PWM		
(99-PRESENT)	70244200	PWM MOTOR CONTROLLER
	70013500	PWM SCREW 10-32X3/8
SPEED SENSOR		
	70243203	CIRCUIT BOARD SPEED SENSOR
	70243300	SPEED SENSOR SCREW 4-40X1/4
DATA CABLE		
	70264100	6COND./CORD DATA CABLE 350PB, HRCB
	70264000	8COND/CORD DATA CABLE 350PB
	70190100	8-CONDUCTOR INTERFACE CABLE(HRC)
<u>DRV MTR</u>	70045000	DDIVE MOTOD Over all and had
	70245600	DRIVE MOTOR Core charge included
DRV BELT		
DRV BELI	70127500	1687J10 POLY-V-BELT
	70127500	1007310 POLT-V-BELT
ELEVATION MTR		
	70186800	ELEVATION MOTOR-HUBBLE
(HARDWARE)	70183200	ELEVATION MOTOR CAPACITOR
A STATE OF THE STA	70183600	INCLINE MOTOR CLEVIS PINS 3/8X1 3/4
	70103000	INCLINE MOTOR COTTER PIN 1/16X1-5/16
	70110700	INCLINE MOTOR CLEVIS PIN 3/8X2-1/8
	70164800	INCLINE MOTOR CLEVIS FIN 3/3/22-1/8 INCLINE MOTOR COTTER PIN 3/3/2X1/2
	70104000	HADEHAE MICTOR COTTEN FIN 3/32A1/2
ELEVATION RACK		

70184402 ELEVATION RACK

(NEW STYLE)	70176700 70182300 70115200 70209900	MOLDED WHEEL INCLINE RISER BOLT 5/16X1 1/4 INCLINE RISER WASHER 3/8 I.D. INCLINE RISER NUT 5/16-18
POWER CORD	70253100 70008200	
ON / OFF SWITCH	70251100	ON/OFF ROCKER SWITCH
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER
TREADBELT	70208500	TREADBELT 18" X 107"
<u>DECK</u>	70186700 70020200 70232700	FLEX DECK DECK SCREWS DECK BUMPERS
FRONT ROLLER (ADJUSTABLE)	70260100 70188500 70185300	FRONT ROLLER W/8 MAGNETS FRONT ROLLER BOLT 1/4-20X2 GR. 5 FRONT ROLLER NYLOK NUT 1/4-20
REAR ROLLER	70188000 70220800 70220900 70104000	
STRADDLE COVERS	70173305 70173306 70086700 70030900	LH STRADDLE COVER BLACK RH STRADDLE COVER BLACK STRADDLE COVER SCREW 6X1 DOUBLE SIDED STICK TAPE
PEDESTAL PEDESTAL	70157000 70173401 70155200 70020200 70183101	PEDESTAL STAR WASHER MOTOR COVER BUMPER FEET BUMPER FEET SCREWS H/BAR NUT PLATE

400P, HRC PARTS LIST

Control Panels	s
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7T007500 400P Control Panel assy w/ Electronics

7T007501 400HRC Control Panel assy W/ Electronics

7T007502 400P Electronics Only 7T007503 400HRC Electronics Only

7T008000 Upper Plastic Front and Rear (400HRC) 7T008001 Upper Plastic Front and Rear (400P)

Overlays

7T010201 Panel Overlay 400P 7T010200 Panel Overlay 400HRC 7T014200 Panel Overlay T-400HRC

<u>PWM</u>

7T007400 PWM W/O Hardware

7T008500 Speed sensor

7T013900 PWM W/O Hardware (230V)

<u>Filter</u>

7T014800 Filter, EMI 400 250V/10A CP6-1022C

7T014000 Bracket, Filter 400 (T=2.0)

7T014100 Bracket Screw Phillips Head M5X0.8X6L UCP

Choke

7T014400 Choke, 400 3MH 220V

Inductor

7T014900 Inductor (choke) 400 6MH 8A

Data Cable

7T007600 Wire Harness

Drive Motor

7T007800 2.75 HP Drive Motor

7T014300 2.75 HP Drive Motor 230V

Drive Belt

7T008400 Drive Belt

Elevation Motor

7T009600 Elevation Motor

7T009700 Front Wheel

7T014500 Elevation Motor 230V 1/6HP

Power Cord

7T009800 Power Cord

7T014600 Power Cord 400 AC220V 1.5MM 2800MM

On/Off Switch

7T009900 On/Off Switch

Circuit Breaker

7T010000 Circuit Breaker

7T014700 Circuit Breaker 400 10A 220V 400RFMB Series

Tread belt

7T008300 Tread belt

Deck

7T008600 Deck, pre drilled

Front Roller

7T008100 Front Roller

Rear Roller

7T008200 Rear Roller 7T009200 Roller Cover - L 7T009300 Roller Cover - R

Straddle Covers

7T009500 Straddle Cover Set

Hardware Kit

7T007900 Complete Hardware Kit

Heart Rate Strap

7TMC0608006 HRC Strap

Safety Key

7T010300 Safety Key

450P, HRC (SS100-SS90) PARTS LIST

CONTROL BANEL	PART#	DESCRIPTION	
(SS100)	70120000 70120100 70175900	450NON SS100CONTROL PANEL 450P SS100 CONTROL PANEL 450HRC SS100 CONTROL PANEL	
(450's) Board Only	70132418 70132417 70132416	450NON SS90 CONTROL Board Only 97-98 450P SS90 CONTROL Board Only 97-98 450HRC SS90 CONTROL Board Only 97-98	
(97-98 STYLE) (OVERLAYS)	70161011 70161013 70161012	450NON SS90 OVERLAY 97-98 450P SS90 OVERLAY 97-98 450HRC SS90 OVERLAY 97-98	
(99-PRESENT)	70242110 70242111 70242112	450NON DOT OVERLAY 99-PRESENT 450P DOT OVERLAY 99-PRESENT 450HRC DOT OVERLAY 99-PRESENT	
<u>PWM</u> (SS100)	70113900	MOTOR CONTROLLER (SS100)	
<u>(SS90)</u>	70132500 70013500	MOTOR CONTROLLER SS90 PWM SCREW 10-32 X 3/8	
SPEED SENSOR (SS100 STYLE)	70104200 70154800	SPEED SENSOR (SS100) SPEED SENSOR W/ WIRE AND BRACKE	
(SS90 STYLE)	70243200 70243300	CIRCUIT BOARD SPEED SENSOR SP. SENSOR SCREW 4-40 X 1/4	
DATA CABLE	70337900 70337800	450NON AND PROG. DATA CABLE 450 HRC DATA CABLE	
DRV MTR	70325500	3HP DRIVE MOTOR 10 MPH	
DRV BELT	70006300	210J10 POLY-V DRIVE BELT	
ELEVATION MTR (ELEVATION- HARDWARE)	70113200 70115500 70116700	INCLINE MOTOR 3/8 X 1 1/2 CLEVIS PIN 1/16 DIA. X 1 5/16 COTTER PIN	Page 41

	70118900	TORQUE ARM SWIVEL PIN
	70183200	START CAPACITOR FOR INCLINE MOTOR
	70013500	SCREW FOR START CAPACITOR
<u>LLS</u>	70121000	LOWER LIMIT SWITCH
	70121000	LOWER LIMIT SWITCH
	70125700	LLS SCREW 10X 1/4
	70120500	LLS TO PWM WIRE
ELEVATION RACK		
	70281001	ELEVATION RISER SUB ASSY.
WHEEL	70176700	BEFORE AUG 99
POWER CORD	70253100	9 FT. POWER CORD
	70253100	STRAIN RELIEF BUSHING
	70000200	STRAIN RELEE BOSTIING
ON / OFF SWITCH		
	70251100	ROCKER ON/OFF SWITCH
CIRCUIT BREAKER		
	70017200	15 AMP CIRCUIT BREAKER SWITCH
TDEADDELT		
TREADBELT	70159300	17 3/4" X 107 3/4" 2 PLY TREADBELT
	70109300	17 3/4 X 107 3/4 2 FET TREADBELT
DECK		
	70157700	FLEX DECK
	70020200	DECK SCREW 10/32 X 1 1/4
FRONT ROLLER	7040000	EDON'T DOLL ED (00400)
(SS100-NARROW)	70123800	FRONT ROLLER (SS100)
(96-xxxx - 99)	70217000	450 FRONT ROLLER(6-8XXXX-99)
<u> [30-XXXX - 33]</u>	70217000	4301 KONT KOLLEK(O-OXXXX-33)
(99-81023G TO)	70359200	450 ADJ. ROLLER
(PRESENT)		
REAR ROLLER		
	70359000	REAR ROLLER
	70158900	ROLLER BOLT
	70159000	5/16 INTERNAL TOOTH LOCK WASHER
STRADDLE COVERS		
STRADDLE GOVERS	70162000	LT & RT STRADDLE COVERS
	70030900	3/8 X 1/16 X 108 FT. DBL. STICK TAPE
	70243400	BLUE TAPE 1/2 X 150 FT. ROLL
PEDESTAL		
(98 style)	70176800	Pedestal Weldment, 450 W/ end caps
(99- 00 style)	70233200	ROUND PEDESTAL WELDMENT
	70155900	PEDESTAL SCREWS
FRAME		
	70255903	FRAME WELDMENT ADJ. FRONT ROLLER
	70155200	BUMPER FEET
	70020200	BUMPER FEET SCREW 10/32X1 1/4PPH

Model 500-550

Parts List

	500, P, HRC (SS100-SS90)	Page 44
_ <i>4</i>	500Z & ZT, P, HRC	Page 48
_ 4	540, P, HRC, CI (NON Z)	Page 51
	540Z, ZT, P, HRC, CI	Page 54
- 4	550, P, HRC	Page 57
- 4	550z, P, HRC, CI	Page 59
_ 4	550 ZTX, P, HRC, CI	Page 61

500P, HRC (SS100-SS90) PARTS LIST

	PART#	DESCRIPTION
CONTROL PANEL		
500 Boards Only (SS90)	70132415	500NON Board Only
Up to 98 with a letter	70132414	500P Board Only
	70132413	500HRC Board Only
	70176911	500Cl Board Only
500 (99 Style Board Only)	70237523	500P Board Only
(98 with a letter)	70237522	500HRC Board Only
	70237612	500Cl Board Only
500A (2000) Style Board Only	70237415	500A NON Board Only
	70237414	500A P Board Only
	70237413	500A HRC Board Only
	70018100	CHERRY SWITCH (SS100)
	70150000	SAFETY SWITCH-ASSY
	70177400	SAFETY KEY
	70020400	SAFETY SWITCH SCREWS
	70020600	SAFETY SWITCH NUTS
	70185400	HEART RATE RECEIVER
	70138500	POLAR HEART RATE CHEST STRAP
	70284100	Old 500
	70240503	EXTRUSION-PANEL CLIP 26 3/4"
<u>OVERLAY</u>		
(SS100 OVERLAY)	70119301	500 NON OVERLAYS-SS100
	70119901	500P OVERLAYS-SS100
	70179701	500 HRC OVERLAYS-SS100
(98 OVERLAY)	70160811	500 NON SS90 OVERLAY 98 STYLE
	70160813	500 P SS90 OVERLAY 98 STYLE
	70160812	500 HRC SS90 OVERLAY 98 STYLE
(99 OVERLAY)	70242211	DOT/OVERLAY ASSY, 500P
(98 with a letter)	70242212	DOT/OVERLAY ASSY, 500HRC
(2000 STYLE)	70265100	DOT / OVERLAY ASSY, 500A
	70265011	DOT / OVERLAY ASSY, 500A HRC
	70265012	DOT / OVERLAY ASSY, 500A P
	70242410	DOT / OVERLAY ASSY, 500CI
<u>PWM</u>		
(SS100)	70113900	PWM MOTOR CONTROLLER-SS100
	70132500	SS90 PWM MOTOR CONTROLLER

CDEED CENCOD	70183500	500CI PWM [96-80000]-[98-80000]\$\$95	
SPEED SENSOR	70154800	SPEED SENSOR ASSYSS100	
	70243200	SS90 SPEED SENSOR NEW STYLE	
DATA CABLE			
(SS100)	70119400 70120400	DATA CABLE-SS100 NON, P, HRC LOWER WIRE HARNESS-SS100	
	70337900 70337800		
DRV MTR			
(SS100)	70155101 70155102	22	
	70325500	DRIVE MOTOR 3HP SS90-Z SERIES	
	70125600	DRIVE MOTOR-CARRIAGE BOLT	
DRV BELT	70006300	DRIVE BELT 210J10-V BELT	
ELEVATION MTR			
<u>ELEVATION IIITN</u>	70113200	ELEVATION MOTOR	
	70118900		
	70183200 70115500		
	70116700		
	70022600	SET SCREW, INCLINE, SWIVEL PIN	
<u>LLS</u>			
	70121000 70120500	LOWER LIMIT SWITCH WIRE-PWM TO LOWER LIMIT SWITCH	
ELEVATION RACK			
	70281002	ELEVATION RACK	
	70154600		
WHEEL / BOLTS	70126200	FLANGED INCLINE BEARING	
····	70176700	MOLDED WHEEL, 2 1/4" DIA. 3/8 HOLE	
	70003100	SHOULDER BOLT-FRONT WHEEL 3/8 X 1"	
(NEW STYLE)	70176701 70174300	MOLDED WHEEL, 2 1/4" DIA 1/2" HOLE 1/2" X 1" SHOULDER BOLT	
POWER CORD			
	70253100 70013900 70008200	POWER CORD, 120 VAC BUSHING-3/8"BLACK STRAIN RELIEF BUSHING	Page 45

ON / OFF SWITCH	70251100 70261000		
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER	
<u>TREADBELT</u>	70159400 70058100 70058200 70068500	STRETCH-TREADBELT ORTHO-TREADBELT-20X108 ROL-TOP	
<u>DECK</u> (SS100)	70072800 70072700		
	70157900 70157800		
(DECK HARDWARE)	70232700 70086700 70020200	DECK BUMPER SCREWS	
FRONT ROLLER (SS100)	70119500 70207800	FRONT ROLLER-95 WIDE WITH 4 MAG. ROLLER SCREW	
<u> HARDWARE - ADJ.</u>	70217300 70255400 70188500 70185300 70256800 70190900	FRONT ROLLER ASSY, '99 FRONT ROLLER ASSY, ADJ. '00 BOLT 1/4-20 / ADJ. END NUT 1/4-20 FLAT WASHER FLANG BOLT 1/4-20 FIXED END	97
REAR ROLLER (SS100)	70073600	REAR ROLLER ASSY SS100	
OTRADDI E COVEDO	70157400	REAR ROLLER ASSY, WELDED SS90	
STRADDLE COVERS	(SS100) 70074700 70074900	STRADDLE COVER-RIGHT SIDE STRADDLE COVER-LEFT SIDE	
	70162101 70162102	STRADDLE COVER ALM. '99 STYLE STRETCH STRDL. CVR. ALM. '99 STYLE	
Page 46	70263900	STRADDLE COVER PLASTIC 500A,P,HRC	

PEDESTAL

(SS100) 70122200 PEDESTAL ASSEMBLY-VINYL

70070200 HANDLEBAR

70155900 PEDESTAL SCREW

70013500 HANDLEBAR SCREWS #10-32X3/8

('98 STYLE) 70179600 PED.-WELDMENT 500NON,P,HRC '98

70179500 PED.-WELDMENT 500CI '98

('99-'00 / '98 W/LETTER) 70233300 PED.-WELDMENT 500 NON,P,HRC '99-'00

70233400 PED.-WELDMENT 500CI '99-'00

70204200 RAM RAILS NON CHR

<u>FRAME</u>

70155200 BUMPER FEET

LUBRICATION

70348900 LUBE STICK

70349000 SILICONE PACKET (1 APPLICATION)

70204200 RAM RAILS NON CHR

FRAME

70155200 BUMPER FEET

LUBRICATION

70348900 LUBE STICK

70349000 SILICONE PACKET (1 APPLICATION)

500Z & ZT, P, HRC PARTS LIST

	PART#	DESCRIPTION
(500ZT's) Overlay Only		500ZT NON/P Overlay Only
<u>Z also</u>	70327511	500ZT HRC Overlay Only
(500ZT'S) BOARDS	70328016	500ZT NON CONTROL BOARD ONLY
	70328015	500ZT P CONTROL BOARD ONLY
<u>ONLY</u>	70328013	500ZT P CONTROL BOARD ONLY
	70328014	50021 ARC CONTROL BOARD ONLY
(500ZT EX'S) BOARDS	70328056	500ZTEX NON CONTROL BOARD ONLY
ONLY International	70328055	500ZTP EX CONTROL BOARD ONLY
	70328054	500ZTHRC EX CONTROL BOARD ONLY
SAME PANELS	70328100	500Z, <mark>ZT</mark> NON PANEL
AS NEW 500ZT	70328101	500Z, <mark>ZT</mark> P PANEL
SERIES.	70328200	500Z, <mark>ZT</mark> HRC PANEL
		•
	70290601	PANEL, BOTTOM CONSOLE
	70294301	PANEL LF.LWR. GRIP CLOSURE
	70290801	PANEL RT.LWR. GRIP CLOSURE
	70290701	HANDLE LT. CONSOLE
	70290801	HANDLE RT. CONSOLE
	70331000	MAGNET SAFETY KEY
PWM		
	70132500	PWM - MOTOR CONTROLLER
500 ZT SERIES	70342900 7/21/200	3 PWM - MOTOR CONTROLLER
SPEED SENSOR		
	70243200	CIRCUIT BOARD SPEED SENSOR
	70243300	SPEED SENSOR SCREW
DATA CABLE		
DATA CABLL	70337900	500Z NON DATA CABLE ,P
	70337800	500Z HRC DATA CABLE
	70337600	3002 FIRC DATA CABLE
500 ZT SERIES	70341300	20 PIN DATA CABLE
<u> </u>	70011000	201 111 271171 071222
DRIVE MOTOR		
	70325500	3HP DRIVE MOTOR
	70341500	500ZT DRIVE MOTOR
DRV BELT		
	70006300	DRIVE BELT 210J10

ELEVATION MTR		
	70113200	ELEVATION MOTOR
	70183200	ELEVATION START CAPACITOR
	70115500	3/8X1 CLEVIS PIN
	70116700	COTTER PIN
	70013500	10-32 X 3/8 PPH SCREW
	70118900	TORQUE ARM SWIVEL PIN
<u>LLS</u>		
	70121000	LLS
	70120500	LLS wire assy. To PWM
		•
ELEVATION RACK		ELEVATION DIGED AGOV
	70281002	ELEVATION RISER ASSY.
	70154600	ELEVATION BLOCK ASSY.
POWER CORD		
	70253100	9FT. POWER CORD ER CORD
ON / OFF SWITCH		
	70251100	ROCKER ON/OFF SWITCH
CIDCUIT DDEAKED		
CIRCUIT BREAKER	70047000	AF AMD OIDOUIT DDE AIKED
	70017200	15 AMP CIRCUIT BREAKER
TREADBELT		
INLADDLLI	70159400	22 X 119 3/4 2PLY TREADBELT
	70133400	ZZ X 113 3/4 ZI ET TREADBELT
(ZT)	70321600	NEW ZT 20"X112 1/4" TREADBELT
()	. 00=.000	
DECK		
	70157900	FLEX DECK
(ZT)	70324300	500ZT FLEX DECK
EDONT DOLLED		
FRONT ROLLER	70255400	ADJ. FRONT ROLLER
	70352200	NEW NUMBER FOR ROLLER
		ROLLER SCREW 1/4-20 X 2 GRD5 ZINC
	70190900	ROLLER SCREW 1/4-20 X 2 GRD3 ZINC
REAR ROLLER		
NEAN NOLLLIN	70157400	REAR ROLLER
	70107400	ILI III IIOLLLII
STRADDLE COVERS		
JIII IDDEE GOTEING	70162110	STRADDLE COVER/ALUM. 54 1/2"
	. 0 . 02 0	5
(ZT)	70343700	500ZT STRAD. CVRS. RT.<.
(7 T)	70334000	5007T STRAD CVP EPONT CAP Pt (Rullet It

(ZT)

70334000

70334100

Page 49

It (Bullet

RT(bullet)

500ZT STRAD CVR FRONT CAP Rt (Bullet

500ZT STRAD CVR FRONT CAP LT (Bullet

	70030900	DBL SIDE STICK TAPE 3/8 X 1/16 X 108FT
	70243400	BLUE TAPE-STR. CVR. 1/2 X 150FT. ROLL
	70086700	6X1 SRADDLE COVER SCREW
RAMRAILS	70330800	LEFT RAM RAIL
	70330900	RIGHT RAM RAIL
<u>PEDESTAL</u>	70005000	DEDECTAL MELDMENT/DOUNDED
	70325000	PEDESTAL- WELDMENT/ROUNDED
(ZT)	70336900	500ZT PEDESTAL WELMENT
	70304200 70156900	pedestal screw for zt RUBBER WEAR STRIP FOR BASE-PED.
FRAME		
TRAME	70262401	FRAME WELDMENT/RND. ADJ. ROLLER
(ZT)	70322800	500ZT FRAME WLD/RND. ADJ. FR. ROLL
	70155200	BUMPER FEET
LUBRICATION		
	70348900	LUBE STICK
	70349000	SILICONE PACKET (1 APPLICATION)

540P, HRC, CI (NON Z) PARTS LIST

CONTROL PANEL	PART # 70237419 70237421 70237420 70237614 70290110 70289310 70289410 70290310	DESCRIPTION 540 NON CONTROL BOARD 540 P CONTROL BOARD 540 HRC CONTROL BOARD 540 CI CONTROL BOARD 540non overlay 540p overlay 540hrc overlay 540ci overlay
	70177400 70150000	SAFETY KEY ASSY. SAFETY SWITCH
<u>PWM</u>	70132500 70013500	MOTOR CONTROLLER (PWM)
SPEED SENSOR	70013300 70243200 70243300	SCREW, 10-32x3/8 PPH TFS Bo SPEED SENSOR SCREW 4-40x1/4 PPH SELF TAPPING
DATA CABLE	7024000	CONEW 4 40X1/41111CEE 17/1111NO
	70337900 70337800 70337700	540NON, P DATA CABLE 540 HRC DATA CABLE 540 CI DATA CABLE
DRIVE MOTOR	70104000	SCREW #10x1/2 PPH
DITTY E INIOTOR	70325500 70125700 70155200 70176000 70013500 70125500 70115200 70125600	3HP. DRIVE MOTOR SCREW 10-32x1/4 PPH TFS Bo BUMPER FEET 1 1/8 x1 1/2 3/8 Dbl Coated foam tape Tesa -49 SCREW10-32x1/4 PPH TFS Bo 5/16-18 NYLOC NUT WASHER 3/8 1Dx7/8odx.083F 5/16-18x2 CARRIAGE BOLT
DRV BELT	70006300	POLY-V-BELT DRIVE BELT
ELEVATION MTR	70113200	ELEVATION MOTOR

	70115500	CLEVIS PIN 3/8x1 1/2
	70116700	COTTER PIN 1/16 Dia x 1 5/16
	70013500	SCREW 10-32 x 3/8 PPH TFSBO
	70118900	TORQUE ARM SWIVEL PIN
LLS		
	70121000	LLS
	70125700	SCREW - 10-32x 1/4 PPH TFS BO
	70120500	LLS WIRE ASSY. To PWM
ELEVATION RACK		
LLLVAHORRAGIE	70281003	ELEV. RISER ASSY.
	70154600	ELEV. RIOCK ASSY.
		SOCKET HD. CAP SCREWS 1/4-20x1
	70122800	
	70183200	INCLINE START CAPACITOR
	70013500	SCREW FOR CAP./10-32x3/8
POWER CORD		
	70253100	POWER CORD 12* 14/3 SJTW BLACK STRT
	70125700	SCREW 10-32x1/4 PPH TFS Bo
ON / OFF SWITCH		
	70251100	ROCKER ON/OFF SWITCH
CIRCUIT BREAKER		
	70017200	15 AMP CIRCUIT BREAKER
TREADBELT		
	70290000	BELT 22x119 3/4 ST E5 2Ply-Lo
	7 020000	221 22X 10 0/ 10 1 20 21 1y 20
	70289900	540 ORTHO TREADBELT
	70203000	040 OKTITO TREADBLET
DECK		
DECK	7020000	FLEX DECK
	70288900	
	70020200	SCREW 10/32 x 1 1/4 PPH "F"
	70158600	BELT GUIDE
	70019300	SCREW 10x3/4
FRONT ROLLER		
	70275200	ADJ. FRONT ROLLER
	70157000	WASHER INTERNAL TOOTH STAR 1/4 id
	70185300	NYLOC NUT 1/4-10 2 nc
	70190900	HEX BOLT-TAP1/4-20x2 Grd 5/21NC
	70256800	FLAT WASHER .50x.26x.09 2n Pltd.
REAR ROLLER		
	70275500	REAR ROLLER ASSY.
	70159000	INTERNAL TOOTH WASHER 5/16
	70158900	BOLT HEX HEAD TAP, Grd 5-5/16
	, 0 100000	JOET HEATIERD IN , OIG J-0/10
STRANNI E COVERS		
STRADDLE COVERS	70062000	Straddle cover / Pleatic
	70263900	Straddle cover / Plastic

	70030900 70243400 70086700	TAPE, 3/8x1/16x108ft. DBL stick-49 BLUE TAPE -STR. CVR. 1/2x150ft roll 6X1 DRYWALL SCREW
RAMRAILS		
	70274105	CHR RAM RAIL
	70210600	#10x3/4 PPH TEK Screw-bo
	70280600	NON CNR RAILS(RAM)
<u>PEDESTAL</u>		
	70288600	PEDESTAL- WELDMENT/ROUNDED
	70156900	RUBBER WEAR STRIPS
<u>FRAME</u>		
	70289700	FRAME WELDMENT/RND. ADJ. FRONT
	70155200	BUMPER FEET
	70020200	SCREW 10/32x1 1/4
	70019300	SCREW 10x3/4 PPHSMBO
	70086700	6x1 DRYWALL SCREW
AUTO WAXER		
	70280800	AUTO WAXER
	70019300	SCREW 10x3/4 PPHSMS Bo
LUBRICATION		
	70348900	LUBE STICK
	70349000	SILICONE PACKET (1 APPLICATION)

540Z, ZT, P, HRC, CI PARTS LIST

CONTROL PANEL (540Z's) Overlay only	PART # 70292410	DESCRIPTION 540Z CI Overlay only
(540ZT's)Overlays only	70327510 70327511	540ZT P Overlay Only 540ZT HRC Overlay Only
(540ZT'S)BOARDS ONLY	70328013 70328012 70298612	540ZT P CONTROL BOARD ONLY 540ZT HRC CONTROL BOARD ONLY 540 Z CI CONTROL BOARD
540ZT EX'S BOARDS ONLY International	70328053 70328052	540ZT PEX CONTROL BOARD ONLY 540ZT HRCEX CONTROL BOARD ONLY
ALL 540ZT PANEL ARE THE SAME AS THE REG, 540Z	70328102 70328201 70299201	540Z,ZT P PANEL 540Z,ZT HRC PANEL 540Z,ZT CI PANEL
<u>overlay</u>	70298900 70331000 70290602	PANEL SCREW MAGNET SAFETY KEY Panel Back Cover
<u>PWM</u>	70132500	PWM MOTOR CONTROLLER
540 ZT SERIES	70342900 70013500	540 ZT MOTOR CONTROLLER PWM SCREW
SPEED SENSOR	70243200	CIRCUIT BOARD SPEED SENSOR
	70243300	SPEED SENSOR SCREW
DATA CABLE ALSO FOR 540ZT	70341300 70337900 70337800 70337700	540ZT 20 pin Data Cable (Most ZT's) 540Z,ZT P DATA CABLE 540Z,ZT HRC DATA CABLE 6pin & 8pin 540Z,ZT CI DATA CABLE 2 pin & 8 pin
DRIVE MOTOR	70325500	3HP. DRIVE MOTOR
	70341500	540ZT DRIVE MOTOR
Page 54	70125700 70155200 70176000	Screw 10-32x1/4 PPH TFS Bo BUMPER FEET 1 1/18 X 1 1/2 3/8 DBL. COATED FOAM TAPE

	70013500 70125500 70115200 70125600	Screw 10-32x1/4 PPH TFS Bo 5/16-18 NYLOC NUT WASHER 3/8 ID X 7/8 OD 5/16-18X2 CARRIAGE BOLT
DRV BELT	70006300	210J10 DRIVE BELT
ELEVATION MTR	70113200	ELEVATION MOTOR
	70115500 70116700 70013500 70118900	3/8 X 1 1/2 CLEVIS PIN COTTER PIN Screw 10-32 x 3/8 PPH TFSBO TORQUE ARM SWIVEL PIN
<u>LLS</u>	70121000	LLS
	70120500	LOWER LIMIT SWITCH WIRE
ELEVATION RACK		
(ZT)	70281003	540ZT ELEVATION RISER ASSY.
	70154600	ELEVATION BLOCK ASSY.
POWER CORD	70253100	POWER CORD 9FT.
ON / OFF SWITCH	70251100	ROCKER ON/OFF SWITCH
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER
TREADBELT	70290000	540Z TREADBELT-22 X 108 3/4
	70289900	540Z TREADBELT-22 X 108 3/4 Ortho
(ZT)	70321800	540ZT-22"X112 1/4" TREADBELT
zt DECK	70321900	540ZT ORTHO BELT
<u>5261.</u>	70288900	540Z FLEX DECK
(ZT)	70324400	540ZT FLEX DECK
FRONT ROLLER	70275200 70352400	ADJ. FRONT ROLLER NEW NUMBER ADJ. FRONT ROLLER

REAR ROLLER	70275500	REAR ROLLER
STRADDI E COVERS		
STRADDLE COVERS	70263900	STRADDLE COVER/ALUM. 54 1/2" 55
(ZT)	70343700 70327002 70343901	540ZT PLASTIC STRAD. CVRS. Plastic Insert 540ZT Alum Side Covers
	70030900	3/8X1/16X108FT ROLL DBL. SIDE STICK T
	70243400 70329600	BLUE TAPE - STR. CVR. 1/2X150FT. ROLL SILVER sst tape
	70086700	STRADDLE COVER SCREW
RAMRAILS	70330800 70330900	LEFT RAM RAIL RIGHT RAM RAIL
PEDESTAL	70325100	PEDESTAL-WELDMENT/ROUNDED
<u>(ZT)</u>	70337000	540ZT PEDESTAL WELDMENT
FRAME		
INAME	70289701	FRAME WELDMENT/ROUNDED ADJ. RO
(ZT)	70322900	540ZT FRAME WELDMENT/RND.
	70155200	BUMPER FEET
LUDDICATION		
LUBRICATION	70348900	LUBE STICK

SILICONE PACKET

70349000

550P, HRC PARTS LIST

CONTROL PANEL	PART#	DESCRIPTION
550 Board Only	70237519 70237518 70237610	550HRC Board Only
OVER! AV	70279200 70279100 70279000	
<u>OVERLAY</u>	70279201 70279101 70150000	550HRC DOT/ OVERLAY
<u>PWM</u>	70279001 70132500 70183500	MOTOR CONTROLLER
SPEED SENSOR	70243200	CIRCUIT BOARD SPEED SENSOR
DATA CABLE	70337900 70337800 70337700	550 HRC INTERFACE CABLE
DRV MTR	70337700	
DRV BELT	70006300	210J10 POLY-V-BELT
ELEVATION MTR	70113200	ELEVATION MOTOR
LLS	70121000	LOWER LIMIT SWITCH
ELEVATION RACK	70281003	ELEVATION RISER ASSY.
POWER CORD	70253100	9FT. POWER CORD
	70008200	STRAIN RELIEF BUSHING
ON/OFF SWITCH	70251100	ON/OFF ROCKER SWITCH
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER
TREADBELT 550CI BELT	70276800 70276900	22X119 3/4" 2PLY TREADBELT 22x119 3/4" 2PLY TREADBELT ORTHO
<u>DECK</u>	70276700	FLEX DECK
FRONT ROLLER	70050400	AD LEDGUE DOLLED

70352400 ADJ. FRONT ROLLER

70352000 REAR ROLLER

STRADDLE COVERS

70162109 LT. AND RT.ALUM. STRADDLE COVER

PEDESTAL

70277600 PEDESTAL-WELDMENT/ROUNDED

FRAME

70276000 ADJ. FR. ROLLER FRAME/WELDMENT

LUBRICATION

70348900 LUBE STICK

70349000 SILICONE PACKET (1 APPLICATION)

550Z, P, HRC, CI PARTS LIST

<u> </u>	PART#	DESCRIPTION	
CONTROL BANEL			
CONTROL PANEL BOARD ONLY	70298217	550Z P BOARD ONLY	
550Z ONLY	70298218	550Z HRC BOARD ONLY	
<u> </u>	70298613	550Z CI BOARD ONLY	
	70200010	COOL OF BOARD CIVET	
	70292415	550Z P OVERLAY	
	70334400	550Z P PANEL	
	70334500	550Z HRC PANEL	
	70329900	550Z CI PANEL	
	70331000	MAGNET SAFETY KEY	
<u>PWM</u>	70422500	PWM MOTOR CONTROLLER	
	70132500	PWM MOTOR CONTROLLER	
	70013500	PWM SCREW	
00550 0511000			
SPEED SENSOR	70242200	CIDCUIT DOADD CDEED CENCOD	
	70243200	CIRCUIT BOARD SPEED SENSOR	
	70243300	SPEED SENSOR SCREW	
DATA CABLE			
	70337900	550Z P DATA CABLE	
	70337800	550Z HRC DATA CABLE	
	70337700	550Z CI DATA CABLE	
DRIVE MOTOR			
DICIVE WOTOK	70325500	3HP DRIVE MOTOR	
	7002000	SIII BRIVE MOTOR	
DRV BELT			
	70006300	210J10 DRIVE BELT	
ELEVATION MED			
ELEVATION MTR	70113200	ELEVATION MOTOR	
	70113200	ELEVATION WOTOR	
	70183200	ELEV. MTR. START CAPACITOR	
	70115500	3/8 X 1 1/2 CLEVIS PIN	
	70116700	1/16 DIA X 1 5/16 COTTER PIN	
	70013500	Screw 10-32 x 3/8 PPH TFSBO	
	70118900	TORQUE ARM SWIVEL PIN	
	70110300	TORQUE ARM OWIVEET IN	
LLS			
	70121000	LLS	
	70400500	LOWED LIMIT OWNTON WATER	
	70120500	LOWER LIMIT SWITCH WIRE	
ELEVATION RACK			
	70281003	ELEVATION RISER ASSY.	
	70454000	ELEVATION RICCIONACOV	

70154600

ELEVATION BLOCK ASSY.

POWER CORD

70253100 POWER CORD 9FT.

ON / OFF SWITCH

70251100 ROCKER ON/OFF SWITCH

CIRCUIT BREAKER

70017200 15 AMP CIRCUIT BREAKER

TREADBELT

70276800 22X119 3/4 2PLY TREADBELT 70276900 Belt Seig 22x119 3/4 550 Ortho

DECK

70276700 FLEX DECK

FRONT ROLLER

70352400 ADJ. FRONT ROLLER

REAR ROLLER

70352000 REAR ROLLER

STRADDLE COVERS

70162110 STRADDLE CVR/ALUM 54 1/2"

70030900 3/8X1/16X108FT. DBL. STICK TAPE

70243400 1/2X150FT ROLL BLUE TAPE

70086700 6X1 STRADDLE COVER SCREW

RAMRAILS

70330800 LEFT RAM RAIL 70330900 RIGHT RAM RAIL

CARRIAGE ASSY. 550Z CI

70240900 ADJ. MOTOR ASSY 550Z CI 70241100 COVER PAN-WELDMENT

70239200 SHAFT

 70250700
 LIMIT SWITCH ASSY.-STOP 550CI

 70249900
 S.O.F.T. SELECT POWER CABLE

 70280000
 INTERFACE CABLE-ASSY.550Z CI

 70280400
 ADJ. CARRIAGE ASSY. 550Z CI

 70252300
 CIRCUIT BOARD INTERFACE 550Z CI

PEDESTAL

70325104 PED-WELDMENT/ROUNDED HRC

70325105 PED-WELDMENT/ROUNDED P

FRAME

70276000 FRAME WELDMENT/RND-ADJ ROLLER

70155200 BUMPER FEET

Page 60 LUBRICATION

70348900 LUBE STICK

70349000 SILICONE PACKET (1 APPLICATION)

550 ZTX, P, HRC, CI PARTS LIST

CONTROL PANEL	PART#	DESCRIPTION
(550ZTX's) Overlay only	70292415	550ZTX P Overlay only
	70292413	550ZTX HRC Overlay only
	70292414	550ZTX CI Overlay Only
Control Board Only	70298216	550ZTX P CONTROL Board Only
	70298215	550ZTX HRC CONTROL Board Only
	70298611	550ZTX CI CONTROL Board Only
International Version	70298256	550ZTX PEX CONTROL Board Only
	70298255	550ZTX HRCEX CONTROL Board Only
	70298651	550ZTX CIEX CONTROL Board Only
Panel Assy.	70299007	550ZTX P CONTROL PANEL
	70298707	550ZTX HRC CONTROL PANEL
PWM	70329900	550ZTX CI CONTROL PANEL
	70342900	MOTOR CONTROLLER
Speed Sensor		
	70243200	Speed Sensor
DATA CABLE		
<u>500zt</u>	70341300	DATA CABLE HRC
DRV MTR		
	70341500	3HP 10 MPH DRIVE MOTOR
	70293002	MOTOR COVER
DRV BELT		
	70006300	210J10 POLY-V-BELT
ELEVATION MTR		
	70330100	INCLINE MOTOR ASSY
LLS	70000404	LOWEDLINGTOWITOU
	70309401	LOWER LIMIT SWITCH
	70120501	LOWER LIMIT SWITCH WIRE TO PWM
ELEVATION RACK		
	70329300	INCLINE RACK ASSY
POWER CORD		
	70253100	9FT POWER CORD
	70008200	STRAIN RELIEF BUSHING
CIRCUIT BREAKER		
	70017200	15 AMP CIRCUIT BREAKER

TREADBELT		
	70322000	22"X124" TREADBELT
	70322100	ORTHO BELT FOR THE 550ZTX CI AND O
DECK	70324500 70232700	FLEX DECK Bumper
FRONT ROLLER	70352400	ADJ. FRONT ROLLER
REAR ROLLER	70352000	REAR ROLLER
STRADDLE COVERS	70343800	ALUM. STRADDLE COVER RH & LH
RAMRAILS	70330800 70330900	LH RAM RAIL RH RAM RAIL
	70347500	INTERCHANGABLE RAM RAILS RT.<.
PEDESTAL	70325302	PEDESTAL WELDMENT - ARCHED 550ztx hrc
<u>FRAME</u>	70337100	FRAME WELDMENT
<u>LUBRICATION</u>	70348900 70349000	LUBE STICK SILICONE PACKET (1 APPLICATION)

Model 600-750

Parts List

600, P, HRC	Page 64
600Z / 700Z, P, HRC	Page 67
700, P, HRC (SS100-SS90)	Page 70
□ 700A, P, HRC	Page 73
□ 725 P, HRC	Page 76
□ 750, P, HRC, CI	Page 79

600P, HRC PARTS LIST

	DADT "	DECODIDETION
CONTROL PANEL	PART#	DESCRIPTION
(600) Board Only	70237412	600NON Board Only
(000) Board Only	70237411	600P Board Only
	70237410	600HRC Board Only
		•
	70269900	600NON DOT PANEL 00-PRESENT
	70269901	600P DOT PANEL 00-PRESENT
	70150000	SAFETY SWITCH ASSY.
	70182800	SAFETY KEY ASSY.
OVERLAY		
<u>OVERLAY</u>	70260010	COONON DOT OVER! AV OO DRESENT
	70269910 70269911	600NON DOT OVERLAY 00-PRESENT 600P DOT OVERLAY 00-PRESENT
	70265911	600HRC DOT OVERLAY 00-PRESENT
	70203011	600HRC DOT OVERLAT 00-PRESENT
PWM		
	70219200	MOTOR CONTROLLER SS-92 DCI
	70219201	MOTOR CONTROLLER 02-PRESENT
	70013500	PWM SCREW
SPEED SENSOR	- 004000	
	70243200	CIRCUIT BOARD SPEED SENSOR
	70243300	SPEED SENSOR SCREW
DATA CABLE		
	70337900	NON HRC DATA CABLE
	70337800	P DATA CABLE
DRV MTR		
	70325500	3HP DRIVE MOTOR
	70282700	MOTOR CHOKE ASSY.
	70125500	NYLOCK NUT- 5/16-18 DRIVE MTR.
	70125600	CARRIAGE BOLT -5/16-18 X 2 3/4
DRV BELT		
DRV BELT	70006300	210J10 POLY-V-BELT
	70000000	ZIOOTOT OLI V BELI
ELEVATION MTR		
	70113200	ELEVATION MOTOR
	70115500	CLEVIS PIN 3/8 X 1 1/2
	70118900	TORQUE ARM SWIVEL PIN
	70116700	COTTER PIN 1/16 DIA. X1 5/16
	70183200	ELEVATION START CAPACITOR
	70013500	CAPACITOR SCREW 10-32 3/8 PPH
116		
<u>LLS</u>	70404000	LOWED LIMIT CAUTOLI
	70121000	LOWER LIMIT SWITCH

	70125700 70120500	10-32 X 1/4 PPH SCREW LOWER LIMIT SWITCH WIRE TO PWM
ELEVATION RACK	70281002 70154600 70122800	ELEVATION RISER ASSY. ELEVATION BLOCK ASSY. 1/4-20 X 1 SOCKET HD. CAP SCREW
POWER CORD		
	70282900 70303700	12 FT. POWER CORD NEMA PLUG
ON / OFF SWITCH	70251100	ROCKER ON/OFF SWITCH
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER
TREADBELT	70159400	20" X 108" 2 PLY SEIGLING TREADBELT
<u>DECK</u>	70157900	FLEX DECK
	70020200	DECK SCREW 10/32 X 1 1/4
BUMPER KIT	70455200	DUMPED FEFT
	70155200 70020200	BUMPER FEET 10/32 X 1 1/4 PPH SCREW
	70232700	FLEX BUMPER
	70086700	BUMPER SCREW 6 X 1
FRONT ROLLER		
(ADJUSTABLE)	70255400	ADJ. FRONT ROLLER
	70188500	BOLT - ADJ. FR.
	70185300 70256800	NYLOCK NUT - ADJ. FR. FLAT WASHER
	70190900	BOLT - FR. SOLID MOUNT END / ADJ. FR
REAR ROLLER		
	70157400 70158900	REAR ROLLER REAR ROLLER BOLT
	70159000	INTERNAL TOOTH WASHER 5/16
STRADDLE COVERS		
	70162101	
	70086700	6 X 1 DRYWALL SCREW

RAMRAILS Page 65

BLUE TAPE 1/2 X 150FT.

DBL. STICK TAPE 3/8 X 1/16 X 108FT.

70274101 HANDLEBAR ASSY./ RAM - CHR 70210600 #10 X 3/4 PPH TEK SCREW

70030900

70243400

REHAB RAILS	70274401	REHAB HANDRAIL ASSY CHR
REHAB HARDWARE		
KEHAB HAKDWAKE	70457000	WARLED INTERNAL OTAR
	70157000	WASHER - INTERNAL STAR
	70013500	SCREW 10-32 X 38 PPH
	70104000	SCREW # 10 X 1/2 PPH TEK
	70122800	SCREW 1/4-20 X 1 SOCKET HEAD CAP
	70064500	PLASTIC PLUG
PEDESTAL		
	70264600	WELDED PEDESTAL 600 NON-CI
	70155900	SCREW PED / 1/4-20 X 5/8
	70157000	INTERNAL TOOTH STAR WASHER / PED
	70269800	BOTTLE HOLDER / MOLDED PLASTIC
	70019300	SCREW - BOTTLE HOLDER
FRAME		
	70262401	FRAME WELDMENT/ROUNDED ADJ. RO
AUTO WAXER		
	7000000	COO ALITO MAYED ACCV

70	<u> </u>	

70280800 600 AUTO WAXER ASSY. 70019300 10 X 3/4 PPHSMS SCREW

70239800 REPLACEMENT WAX CHANNEL ASSY.

LUBRICATION

70348900 LUBE STICK

70349000 SILICONE PACKET (1 APPLICATION)

600Z/ 700Z, P, HRC PARTS LIST

	PART#	DESCRIPTION
CONTROL PANEL		
(600Z's) Overlays only	70327510	600Z NON/P Overlay Only
toos of oronays only	70327511	600Z HRCEX OVERLAY
Board Only 600Z	70328011	600Z NON Control Board Only
Board Only 0002	70328010	600Z P
	70020010	00021
<u>International</u>	70328051	600Z HRCEX Control Board Only
(700Z's) Overlays only	70292412	700Z Overlay only
	70292411	700Z P Overlay only
	70292413	700Z HRC Overlay only
		• •
Board Only 700Z	70298412	700Z NON Control Board Only
	70298214	700Z P Control Board Only
	70298213	700Z HRC Control Board Only
		,
International	70298452	700Z NONEX Control Board Only
	70298254	700Z PEX Control Board Only
	70298253	700Z HRCEX Control Board Only
		,
	70290601	PANEL,BOTTOM CONSOLE
	70294301	PANEL LF. HANDLEGRIP LOWER
	70294302	PANEL RT. HANDLEGRIP LOWER
<u>PWM</u>		
	70343000	220 VOLT PWM
	70342900	MOTOR CONTROLLER
SPEED SENSOR		
	70243200	CIRCUIT BOARD SPEED SENSOR
DATA CABLE		
	70341300	20 PIN DATA CABLE
DRV MTR		
	70260800	220 MOTOR
	70341500	3HP 115V DRIVE MOTOR
DRV BELT		
	70006300	210J10 POLY-V-BELT
ELEVATION MTR		
	70260800	220 ELEVATION MOTOR
	70113200	ELEVATION MOTOR

<u>LLS</u>	70121000	LOWER LIMIT SWITCH
ELEVATION RACK	70281002	600Z ELEVATION RISER ASSY.
	70281003	700Z ELEVATION RISER ASSY.
POWER CORD	70303700	12' POWER CORD
ON / OFF SWITCH	70251100	ON/OFF ROCKER SWITCH
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER
TREADBELT	70317300	600Z 20"X108" TREADBELT
	70317400	700Z 22"X119 3/4" TREADBELT
<u>DECK</u>	70157900	600Z FLEX DECK
	70276700	700Z FLEX DECK
FRONT ROLLER	70352200	600Z ADJ. FRONT ROLLER
	70352400	700Z ADJ. FRONT ROLLER
REAR ROLLER	70351800	600Z REAR ROLLER
	70352000	700Z REAR ROLLER
STRADDLE COVERS		
STRADDLE COVERS	70162111	600Z ALUM.STRADDLE CVRS.
	70162110	700Z ALUM. STRADDLE COVERS
RAMRAILS	70330800 70330900	LH RAM RAILS RH RAM RAILS

PEDESTAL

70325100 PEDESTAL WELDMENT

FRAME

70262405 600Z WLD/RND ADJ. ROLLER FRAME

AUTO WAXER

70280800 AUTOWAXER

LUBRICATION

70348900 LUBE STICK

70349000 SILICONE PACKET (1 APPLICATION)

Replacement Pedestal 70325103!

700P, HRC (SS100-SS90) PARTS LIST

	CONTROL DANIEL	PART#	DESCRIPTION
	(SS100)	70119300 70119900 70179700	700NON SS100 PANEL 95-96 700P SS100 PANEL 95-96 700HRC SS100 PANEL 95-95
	(97-98 STYLE) Board Only	70132412 70132411 70132410	700NON SS90 Control Board Only 97-98 700P SS90 Control Board Only 97-98 700HRC SS90 Control Board Only 97-98
	(99-PRESENT) (DOT Control Board)	70237515 70237514 70237513	700NON 15% DOT Control Board Only 99-Z 700P 15% DOT Control Board Only 99-Z 700HRC 15% DOT Control Board Only 99-Z
	OVERLAY (SS100 STYLE)	70185400 70138500 70273800 70182800 70209700 70119301 70119901	HEART RATE RECEIVER POLAR CHEST STRAP-HEART RATE CONTACT H R TRANSMITTER SAFETY SWITCH ASSY. 700 PUSH BUTTON SAFETY SWITCH SS90 TON SAFETY SWITCH SS90 700NON SS100 OVERLAY 95-96 700P SS100 OVERLAY 95-96
	(<u>97-98 STYLE)</u>	70179701 70160815 70160816	700HRC SS100 OVERLAY 95-96 700NON SS90 OVERLAY 97-98 700P SS90 OVERLAY 97-98
	(99-PRESENT)	70160814 70242310 70242311 70242312	700HRC SS90 OVERLAY 97-98 700NON DOT OVERLAY 99-PRESENT 700P DOT OVERLAY 99-PRESENT 700HRC DOT OVERLAY 99-PRESENT
	PWM (SS100)	70113900	(SS100) MOTOR CONTROLLER
	(96-800000-) (PRESENT)	70219200	PWM MOTOR CONTROLLER
)	SPEED SENSOR (SS90 STYLE-98-)	70162402	SPEED SENSOR SS90

(99-PRESENT)	70243201	SPEED SENSOR 700, P, HRC
DATA CABLE	70007000	700 D DATA CADI E
	70337900 70337800	700, P DATA CABLE 700 HRC DATA CABLE
DRV MTR		
	70325600	DRIVE MOTOR 3HP W/FLYWHEEL
	70263500	220V DRIVE MOTOR
	70155300	DRIVE PULLEY 1 11/16" DIA.
	70146500	DRIVE PULLEY 12MPH
DRV BELT	70127600	DRIVE BELT 260J10 POLY-V-BELT
ELEVATION MTR		
(HARDWARE)	70171500 70126200	ELEVATION MOTOR 115V 700, P, HRC INCLINE BEARING (FLANGED)
(HARDWAKE)	70120200	SWIVEL PIN/TORQUE ARM
	70115500	CLEVIS PIN 3/8 DIA. 1 1/2 IN. LONG
	70116700	HAIR COTTER PIN .062 DIA.
	70022600	SET SCREW, INCLINE, CONE POINT
<u>LLS</u>		
	70121000	LOWER LIMIT SWITCH
	70018100 70120500	CHERRY SWITCH LOWER LIMIT SWITCH WIRE
	70120000	LOWER LIMIT OWN OF WINCE
ELEVATION RACK	70470700	MOLDED WILLEL OVER ALIO OR
(BEFORE AUG99)	70176700 70003100	MOLDED WHEEL 3/8 BEF.AUG.99 WHEEL BOLT 3/8 BEFORE AUG, 99
	70003100	WHELE BOLT 3/0 BET ONE AGO, 39
AFTER AUG., 99)	70176701	MOLDED WHEEL 2 1/4 AFT.AUG, 99
	70174300	WHEEL BOLT 1/2" AFTER AUG., 99
POWER CORD		
	70282900	POWER CORD 12 FT.
	70008200	STRAIN RELIEF BUSHING
ON / OFF SWITCH		
	70251100	ON/OFF SWITCH
CIRCUIT BREAKER		
	70017200	15 AMP CIRCUIT BREAKER
TDEADDELT		
<u>TREADBELT</u>	70214300	TREADBELT 700, P, HRC

DECK

	70158000 70086700 70020200	DECK DECK SUSP. BLOCK SCREW6X1 DECK SCREWS 10/32X1 1/4"
FRONT ROLLER	70150800	FRONT ROLLER ASSY, 700 W/SS100
(NON-ADJ.)	70164700	FRONT ROLLER 8 MAGNET/NON ADJ
(ADJ. NOV00)	70265300	FRONT ROLLER ADJNOV.2000
	70005600 70005500	ROLLER SCREW 3/8-16X3/4 ROLLER BOLT 3/8X16X3 HX HD. BOLT
REAR ROLLER STRADDLE COVERS	70186000 70005600 70005500 70073900	REAR ROLLER SS90 ROLLER SCREW 3/8-16X3/4 ROLLER BOLT 3/8X16X3 HX HD. BOLT OLD STYLE
	70162107 70030901	STRADDLE COVER-ALUM46 13/16" 3/8 X1/16 X 36YD. DBLE STK TAPE 16'
RAMRAILS	70204200 70104000	RAMRAIL HANDLE BAR RAIL SCREWS #10-32X3/8
<u>PEDESTAL</u>	70233500 70207800	PEDESTAL-99-00 700,700P,700HRC BOLT - PED 3/8" - 16 X 3/4"
AUTO WAXER	70167000 70239800 70342000	AUTOWAXER - ASSY WAX CHANNEL (ONLY) GRND. WIRE FOR WAXER
LUBRICATION	70348900 70349000	LUBE STICK SILICONE PACKET (1 APPLICATION)

700A, P, HRC PARTS LIST

WEIGHT PART #		DESCRIPTION	
	70298413 70237517 70237516	700A NON Board Only 700A P Board Only 700A HRC Board Only	
	70311700 70312100 70312000	700A DOT PANEL ASSY. 700A P DOT PANEL ASSY. 700A HRC DOT PANEL ASSY.	
	70240505 70020300 70182800	EXTRUSION PANEL CLIP28 3/4" LG SCREW 6-32x3/8 PPHMS BLK OX SAFETY SWITCH	
	70242313 70279201 70279101	700A DOT /OVERLAY 700A P DOT/OVERLAY 700A HRC DOT/OVERLAY	
3lbs.	70219200 70219201	MOTOR CONTROLLER 5592/DCI (Green) MOTOR CONTROLLER (02)	
	70013500 70282700	SCREW, 10-32x3/8 PPH TFS Bo CHOKE ASSY.	
1lbs.	70243200 70243300	SPEED SENSOR SCREW 4-40x1/4 PPH SELF TAPPING	
	70337900 70337800	NON HRC DATA CABLE AP, HRC	
44lbs.	70325500	3HP. DRIVE MOTOR	
	70125700 70176000 70013500 70125500 70115200 70125600	SCREW 10-32x1/4 PPH TFS Bo 3/8 DBL. COATED FOAM TAPE TESA -49 SCREW 10-32x1/4 PPH TFS Bo 5/16-18 NYLOC NUT WASHER 3/8 1Dx7/8odx.083F 5/16-18x2 CARRIAGE BOLT	

70006300	DRIVE BELT
70000500	DRIVEBELL

10lbs.	70113200	ELEVATION MOTOR
	70183200 70013500 70115500 70116700 70013500 70118900	COTTER PIN 1/16 Diaz x 1 5/16 SCREW 10-32 x 3/8 PPH TFSBO
	70121000 70125700 70120500	LLS SCREW - 10-32x 1/4 PPH TFS BO LLS WIRE ASSY. To PWM
26lbs.	70281003 70122800	ELEV. RISER ASSY. SOCKET HD. CAP SCREW 1/4-20x1
	70303700 70125700 70013500	POWER CORD 12* 14/3 SJTW Black STRT SCREW 10-32x1/4 PPH TFS Bo SCREW 10-32x3/8 PPH TFS Bo
	70251100	ROCKER ON/OFF SWITCH
	70017200	15 AMP CIRCUIT BREAKER
9lbs.	70317400	BELT 22x119 3/4 ST E5 2Ply-Lo
60lbs.	70276700 70020200 70158600 70019300	FLEX DECK SCREW 10/32 x 1 1/4 PPH "F" z1 BELT GUIDE SCREW 10x3/4
9lbs.	70275200 70352400	ADJ. FRONT ROLLER NEW NUMBER ADJ. FRONT ROLLER
	70157000 70185300 70256800	INTERNAL TOOTH STAR WASHER 1/4 id NYLOC NUT 1/4-10 2 no FLAT WASHER .50x.26x.09 2n Plod.
13lbs.	70275500 70159000	REAR ROLLER ASSY. INTERNAL TOOTH WASHER 5/16

70158900	BOLT HEX HEAD TAP, Gird 5-5/16
70162109	STRADDLE COVER/ALUM. 54 1/2" 55
70031200	TAPE 1/2"x18yd. Adhesive
70030900	TAPE, 3/8x1/16x108ft. DBL stick-49
70243400	BLUE TAPE -STR. CVR. 1/2x150ft roll
70086700	6x1 DRYWALL SCREW
70274105	CHR RAM RAIL
70280600	NON CHR RAIL (ram)
70210600	#10x3/4 PPH TEK Screw-boo
70277601	PEDESTAL- WELDMENT/ROUNDED
70156900	RUBBER WEAR STRIPS
70276003 70155200 70020200 70019300 70086700	FRAME WLDMNT. BUMPER FEET SCREW 10/32x1 1/4 SCREW 10x3/4 PPHSMBO 6X1 DRYWALL SCREW
70280800	AUTO WAXER
70019300	SCREW 10x3/4 PPHSMS Bo
70348900	LUBE STICK
70349000	SILICONE PACKET (1 APPLICATION)

1lbs.

725P, HRC PARTS LIST

	PART#	DESCRIPTION
CONTROL PANEL (98 STYLE) Board Only	70132412 70132411 70132410	725 NON CONTROL Board Only-SS90 (98) 725P CONTROL Board Only-SS90 (98) 725HRC CONTROL Board Only-SS90 (98)
(99-00 STYLE) Board Only	70237512 70237511 70237510	725 NON DOT CONTROL Board Only (99-00) 725P DOT CONTROL Board Only (99-00) 725HRC DOT CONTROL Board Only (99-00)
	70182800 70185400 70138500 70239800 70245100	SAFETY KEY ASSY. HEART RATE RECEIVER HEART RATE POLAR CHEST STRAP HEART RATE TRANSMITTER PLASTIC COVER -HR CONTROL
OVERLAYS (98 STYLE)	70160815 70160816 70160814	725 NON OVERLAY-SS90 (98) 725P OVERLAY-SS90 (98) 725HRC OVERLAY-SS90 (98)
(99- 00 STYLE)	70242310 70242311 70242312	725 NON DOT/OVERLAY (99-00) 725P DOT/OVERLAY (99-00) 725 HRC DOT/OVERLAY (99-00)
<u>PWM</u>	70219200 70219201 70013500 70282700	MOTOR CONTROLLER 5592/DCI(Green) MOTOR CONTROLLER WITH CHOKE (02) SCREW, 10-32x3/8 PPH TFS Bo CHOKE ASSY.
SPEED SENSOR	70243201 70243300	SPEED SENSOR SCREW 4-40x1/4 PPH SELF TAPPING
DATA CABLE	70337900 70337800	725, P DATA CABLE 725 HRC DATA CABLE
DRV MTR	70325800	MED. MOTOR

	70325600 70125700 70125600 70125500 70115200 70219601	DRIVE MOTOR 3 HP. MOTOR SCREW CARRIAGE BOLT 5/16-18X2" NYLOC NUT-5/16-18 WASHER-3/8 ID. X 7/8 OD. MOTOR ISOLATION KIT (725)
DRV BELT	70127600	DRIVE BELT 260J10
ELEVATION MTR		
<i>(</i> ==)	70171500	INCLINE MOTOR (HUBBLE)
(HARDWARE)	70183600 70118900	CLEVIS PIN 3/8 X 1 3/4 SWIVEL PIN - TORQUE ARM
	70118900	START CAPACITOR
	70013500	CAPACITOR SCREW 10-32X3/8
<u>LLS</u>		
	70121000	LOWER LIMIT SWITCH
	70125700 70120500	LOWER LIMIT SWITCH SCREW LOWER LIMIT TO PWM WIRE
	70120300	LOWER LIMIT TO T WINT WIRE
ELEVATION RACK		
	70281002	ELEVATION RACK
	70122800	ELEV. SCREW 1/4-20X1 SOCKET HEAD
	70116900	LOCK NUT 1/4-20 ZINC/COURSE-THREAD
	70176700 70003100	MOLDED WHEEL 3/8 BEF. AUG., 99 MOLDED WHEEL BOLT BEF. AUG., 99
	70176701	MOLDED WHEEL 1/2 AFTER AUG., 99
	70174300	MOLDED WHEEL BOLT AFTER AUG., 99
POWER CORD		
	70282900	12 FT. POWER CORD
ON / OFF SWITCH	70251100	ON/OFF SWITCH
CIRCUIT BREAKER		
	70017200	CIRCUIT BREAKER 15 AMP
	70213100	CIRCUIT BREAKER 10 AMP DUAL POLE
<u>TREADBELT</u>	70214400	SEIGLING TREADBELT E5X20X129
	70214400	SEIGLING TREADBELT ESAZUATZ9
DECK		
	70159100	FLEX DECK
	70020200	DECK AND BUMPER FEET SCREW
	70155200	DECK BUMPER FEET
FRONT ROLLER		
(BEFORE NOV.00)	70164700	FRONT ROLLER BEFORE NOV.,00

(AFTER NOV.00)	70265300	FRONT ROLLER AFTER NOV.,00-ADJ.
	70207800 70283700 70115200 70253700	ROLLER SCREW 3/8-16X3/4 ROLLER BOLT 3/8-16X3 LG. ROLLER WASHER 3/8 IDX7/8 OD 3/8 NYLOC NUT
REAR ROLLER		
	70186000	REAR ROLLER
	70188600	REAR ROLLER BOLT
STRADDLE COVER	<u>RS</u>	
	70162106	STRADDLE COVER
	70086700	STRADDLE COVER SCREW
	70030900	STRADDLE COVER TAPE-108FT.DBL.STK.
	70243400	STRADDLE COVER BLUE TAPE150 FT.
RAMRAILS		
<u></u>	70274101	RAM RAILS CONTACT HEART RATE
	70210600	RAIL SCREW #10X3/4
PEDESTAL		
	70233501	PEDESTAL-WELDED
	70156900	RUBBER WEAR STRIP
	70207800	BOLT - PED. 3/8"-16 X 3/4"
	70269800	BOTTLE HOLDER MOLDED PLASTIC
	70019300	BOTTLE HOLDER SCREW 10X3/4
AUTO WAXER		
	70167000	AUTO WAXER
	70019300	SCREW 10x3/4 PPHSMS BO
	70342000	GROUNDING STRAP ASSY.
LUBRICATION	70239800	WAX CHANNEL (ONLY)
LUDINICATION	70348900	LUBE STICK
	70349000	SILICONE PACKET (1 APPLICATION)

750P, HRC, CI PARTS LIST

	PART#	DESCRIPTION
(99-PRESENT) BOARD ONLY	70237524 70237525 70237613	750 BOARD ONLY 99-PRESENT 750P BOARD ONLY 99-PRESENT 750CI BOARD ONLY 99-PRESENT
GRAY MACHINES ONLY! BOARD ONLY	70219310 70176910	750 P Board Only 750Cl Board Only
	70185400	HRC RECEIVER
	70245100 70182800	PLASTIC HR COVER SAFETY KEY/SWITCH
OVERLAY		
(98 STYLE)	70216212 70216211 70177011	750NON OVERLAY 1998 750P OVERLAY 1998 750CI OVERLAY 1998
(99-PRESENT)	70242510 70242511 70242610	750NON DOT OVERLAY 99-PRESENT 750P DOT OVERLAY 99-PRESENT 750CI DOT OVERLAY 99-PRESENT
<u>PWM</u>		
	70183500	MOTOR CONTROLLER-BEFORE 08/00
	70183502 70264800	PWM WITH CHOKE-AFTER-08/00 MOTOR CONTROLLER- 220V
	70013500	10-32X3/8 SCREW (PWM)
SPEED SENSOR	70243201 70243300	CIRCUIT BOARD SPEED SENSOR 4-40 X 1/4 SELF TAPPING SCREW
DATA CABLE		
Verify config.	70286700 70337700	750, P DATA CABLE BEFORE 08/00 750 CI DATA CABLE
Verify config. Verify config.	70219500 70271700	750 OF DATA CABLE 750 non, p data cable '99 750B & PB DATA CABLE '00
DRV MTR	70172000 70263400 70169600 70159000	3HP DRIVE MOTOR Core charge added 3HP DRIVE MOTOR EX 220V Core charge added DRIVE MOTOR TENSION PLATE Page 79 5/16 STAR WASHER

	70125700 70219701	10-32X1/4 SCREW MOTOR ISOLATION KIT (750)
DRV BELT	70127600	260J10 POLY-V-BELT
TREADBELT	70214500	TREADBELT/SIEGLING E5X23X129
<u>DECK</u>	70169400 70020200 70183400	DECK 32 1/2 X 56 DECK SCREW 10 X 1 1/4 DECK BUMPER
ELEVATION MTR		
(HARDWARE)	70171500 70183200 70183600 70118900 70013500 70116700	HUBBLE ELEVATION MOTOR CAPACITOR-LIFT MOTOR 3/8 X 1 3/4 CLEVIS PIN TORQUE ARM SWIVEL PIN 10-32 X 3/8 SCREW 1/16DIA. X 15/16 COTTER PIN
LLS	70404000	11.0
	70121000 70125700 70120500	LLS 10- 32 X 1/4 Screw for LLS Bracket LLS TO PWM WIRE
ELEVATION RACK		
	70281004 70154600 70122800 70173900 70174300	ELEVATION RISER ASSY. ELEVATION BLOCK ASSY. 1/4-20 SOCKET HEAD CAP SCREW MACHINED WHEEL 2 1/4" OD. WHEEL BOLT 1/2" X 1 SHOULDER BOLT
POWER CORD		
	70282900 70008200	12 FT. POWER CORD STRAIN RELIEF BUSHING
ON / OFF SWITCH	70251100	ON/OFF ROCKER SWITCH
CIRCUIT BREAKER	70017200	15 AMP CIRCUIT BREAKER
FRONT ROLLER	70168000 70265400	NON ADJ. FRONT ROLLER ADJ. FRONT ROLLER
	70207800	SCREW 3/8-16 X 3/4
REAR ROLLER	70168300 70170800	REAR ROLLER 1/2- 13 X 4" TAP BOLT

	70170900	1/2INTERNAL TOOTH STAR WASHER
STRADDLE COVERS		
	70171800	RT. AND LT. STRADDLE COVER
	70243400	BLUE TAPE, STR CVR 1/2 X 150 FT ROLL
	70086700	6 X 1 DRYWALL SCREW
	70030900	DOUBLE STICK TAPE 3/8 X 1/16 X 108 Ft
RAMRAILS		
	70165100	RAM HANDLE BAR
	70210600	#10 X 3/4 SCREW
PEDESTAL PEDESTAL		
	70233601	ROUNDED PEDESTAL WELDMENT
	70156900	RUBBER WEAR STRIP
	70269800	BOTTLE HOLDER
	70019300	BOTTLE HOLDER SCREW 10X3/4
<u>FRAME</u>		
	70227501	FRAME WELDMENT/ROUNDED GRAY
	70155200	BUMPER FEET
	70020200	BUMPER FEET SCREWS
	70164500	BUMPON DECK BUMPER
AUTO WAXER		
	70167000	AUTOWAXER
	70019300	AUTOWAXER SCREW, 10 X 3/4
	70342000	GROUNDING STRAP ASSY.
LUDDICATION		WAX CHANNEL
LUBRICATION	70348900	LUBE STICK
	70348900	SILICONE PACKET (1 APPLICATION)
	10043000	SILICONE I ACINET (I ALL LICATION)